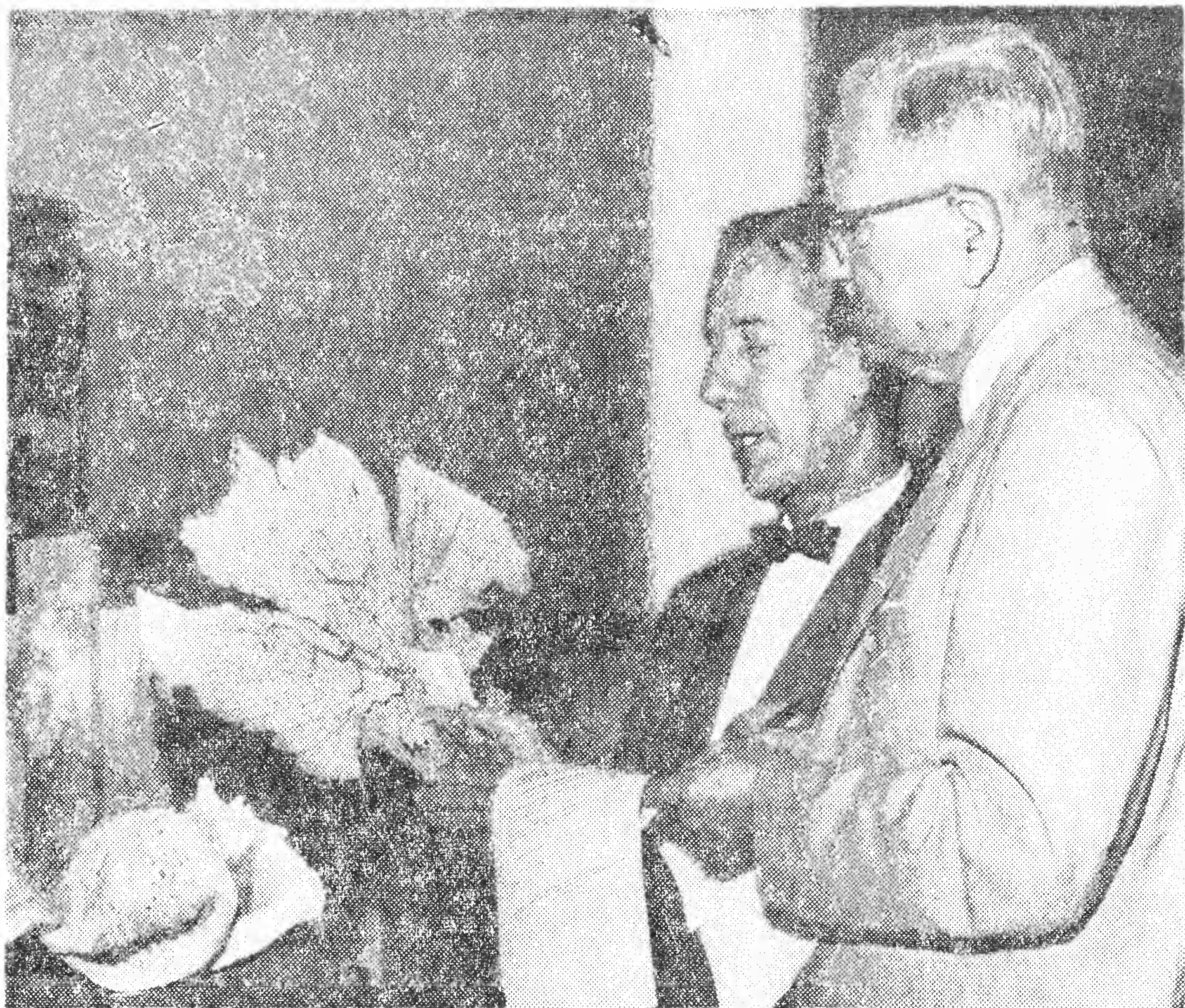


Post. June 11, 1960



By Henry Rohland, Staff Photographer

Harald A. Rehder, at left, shows United States customs examiner Wert T. Bayne a sea fan and some conch shells which he brought back from Mexico. Rehder, curator of mollusks for the Smithsonian

Institution, was a member of an expedition which gathered thousands of specimens of mollusks, fishes, insects, sponges and other creatures from the beaches of the Yucatan Peninsula.

## Smithsonian Fishing Trip Big Success

A team of researchers has come back with a big catch from a scientific fishing exhibition in waters along the east coast of Mexico's Yucatan Peninsula.

Yesterday a customs inspector checked through some of souvenirs they sent home to the Smithsonian Institution—eels, mollusks, sting rays, barracudas, shells. Altogether, the catch added up to more than 10,000 specimen of mollusks, 500 fishes, and 5000 insects.

None of the specimens was brought back alive. The shipment included vial after vial of miniature crabs, shrimp, and other marine life preserved in alcohol.

"We caught these by dangling an electric light over the side of the schooner at night," explained Harald A. Rehder of the Smithsonian staff. This attracted all kinds of marine life and we used a dip net to bring them out."

The expedition was led by Waldo L. Schmitt, also of the Smithsonian staff. One of the sponsors, along with Smithsonian, was J. Bruce Bredin, of Wilmington, Del.

The scientific fishermen spent a month cruising in a 70-foot schooner along the eastern coast of the Yucatan Peninsula which has not been studied extensively for marine life.

Most of the catch was collected in lagoon waters, but some underwater work with face masks and breathing tubes was required. Here the scientists ran the risk of the stings of corals and Diadema-sea-urchins.

Some of the handsomest finds are large Queen conch shells—or strombus gigas to the scientists.



## ger to Him

Another friend, the Rev. Ralph M. Sharpe of Francis Asbury Methodist Church here, is a deer hunting pal. Every fall the two go up to Dr. Robertson's cabin on Hayback Mt. in the lovely Goshen Pass section of West Virginia.

In the summer snakes are the quarry. Clearing off a grown-up field several summers ago, the minister and a helper accounted for three rattlers, eight copperheads and eight non-deadly snakes. Now he has four or five head of cattle there, but he doesn't make any money on them. It always happens that "every time I buy the price is up and every time I sell the price is down."

With two clerical friends, one from Dublin, the other from London, he toured England, Scotland, Ireland, France and the Isle of Man last summer.

Another friend was pianist in a church at Ashland, Va., where he was student pastor while still at Duke Divinity School. She was "a beautiful blue-eyed blonde," Eva Pridy, and he courted her six years and married her when he convinced her "she couldn't do any better."

Dr. Robertson entered the ministry through the influence of the minister of his home church in Craigsville, Va., 22 miles west of Staun-



The Washington Post

REV. JAMES L. ROBERTSON  
... pastor of Clarendon  
Methodist Church

ton. The minister asked him to preach one Sunday, when he was 16. His father told him, "Go ahead, son, and try; it won't hurt you." So he preached on salvation and "made out all right."

Dr. Robertson got his A.B. from Randolph-Macon in 1932, working in a steel mill in

## Methodists Will Elect 3 Bishops

Three new bishops of the Methodist Church, possibly four, will be elected here June 15-19 at the quadrennial session of the denomination's Northeastern Jurisdiction Conference. The successor to Bishop G. Bromley Oxnam of Washington will also be named then.

The Northeastern Jurisdiction—one of six in the United States — takes in 12 Eastern states from Maine to West Virginia, the District of Columbia and Puerto Rico. It has 7785 churches and nearly 2 million members.

The 314 delegates will represent 21 annual (regional) conferences.

Besides Bishop Oxnam, two other bishops, W. Earl Ledder of Syracuse, N. Y., and Frederick B. Newell of New York City are retiring. A fourth vacancy will be created if the Conference votes to make West Virginia a separate episcopal area, as expected.

The new area is recommended in the report of a special Committee on Bound-

### Christian Science

#### ENCE CHURCHES G ROOMS IN ASHINGTON

church, The First Church of  
oston, Massachusetts

#### N-SERMON, JUNE 12 ERVER OF MAN

By grace are ye saved through  
es; it is the gift of God.

#### CHES

##### Virginia

ALEXANDRIA—First Church

1709 Russell Road

ARLINGTON—First Church

6843 Little Falls Road

ARLINGTON—Second Church

3101 Arlington Blvd.

at North Highland St.

FAIRFAX—First Church

Rt. 237 Nr. Layton Hall Schl.

MT. VERNON—Society

Hollin Hills Schl., Alex.

##### Maryland

CHEVY CHASE—First Church

7901 Connecticut Avenue

HYATTSVILLE—First Church

6221 43rd Ave.

SILVER SPRING—First Church

Georgia Ave. & Highland Dr.

#### SERVICES

nday School at 11; First Church,  
alexandria; First Church, Hyattsville  
ervices and Sunday School also at  
First Church in Washington at 8,  
p.m. Wednesday evening meet-  
healing, First Church, Arlington;  
hurch, Hyattsville, at 8:15.

#### G ROOMS

##### VIRGINIA

Alexandria—110 N. St. Asaph St.

Falls Church—123 N. Little

Falls St.

Arlington—3150 Wilson Blvd.,

Room 200.

Fairfax—Town Library Bldg.

##### MARYLAND

Chevy Chase—7901 Conn. Ave.

Hyattsville—4333 Gallatin St.

Silver Spring—8484 Fenton St.

nd the Services, and to Visit the

AM and WASH-FM, 9:15 A.M.,

:45 A.M.; Fri., WRC, 6 A.M.

n., WRC-TV, 9 15 A.M.

### Lutheran



March 28 - 1960

①

Underway and bowling ~~at~~ seemingly at great rate but actually around 5 knots at that — 5 nautical miles an hour that is. We did not leave Progreso till after 9 p.m. on 27<sup>th</sup> — though I urged Capt to do so in order to get to Mujeres see the Admiral the same day and be ready for work next a.m. With late start and slow running we won't see admiral till 29<sup>th</sup> and may be not get to work before 30<sup>th</sup> Oh! me Oh! my.

Still it's a beautiful day, bright sunny easy sea and invigorating breeze; except for fact it is not enough for sailing and moreover from the South into which we are heading, it is sailing if you can call it that at its best. Those who are trying for a sunburn or can take it have been lying most of the morning in deck chairs with only shorts on. Harold between sheets at the wheel began fishing Sargassum. I thought it sort of odd stuff — but it turned out to be a worthy station couple of little <sup>grey</sup> plaice, a fish, couple of mollusks (one an egg case) and — is it my first time — sargassum weed with



With attachments one to valve of bivalve, other with <sup>encrusted</sup> red nullipore "base" just like many an alcyonarian. All this fairly small but many branched pieces or plants alive with usual growths, but crabs, at least one quite greyish is certainly not "sayi" to look at it - is it from same locality as attached weed either weed represented 2 species or pcs of different ages. I believe there were also some strands of a green filamentous or at least thin stemmed also among or on strands of Sargassum.

All said and done Harald did us a favor by wanting to look at those few and far between small clumps of Sargassum. Breakfast late as usual. Had  $\frac{1}{2}$  grapefruit, corn flakes & dry milk mixed up. 2 fried, and whole wheat toast but tasted like straw. However was good and ample.

I notice that Mujeres is spelled Mugerres on chart. Gave my bottle rack second coat of paint this am. and ~~fixed~~ fitted out 1st row of bottles. Now mats on deck house and ready for work. Harald fixed couple of boxes of plastic vials with lids, 2 sizes vials. This Mexican paint I bought ashore appears to be great stuff - ~~thick~~ thick but spreads well, and in the breeze across the deck and perhaps with sun's help dries fast. Would like to see the formula. We are way behind what Captain



promised us. We were to be in Mujeres Abr (3)  
by or before lunch and we won't be in and anchored  
before 8<sup>pm</sup> maybe. He is too optimistic about  
what he can do, but now is feeling no-  
body but himself. Is afraid of getting near  
shore anywhere. // Still it's been an enjoyable  
day otherwise; Sunset nothing out of ordinary  
made me think of Portugal with wide sea rolling  
rising and falling before it. The ceaseless  
waves running off to where - who knows. It's  
always the fascination of the sea.

Dajber is a big 6ft 2" man, and cannot  
wait he long drawn out meal times. While at  
6:30 had (poor devil) to make him self a sand-  
wich. Last night I slept till dinner, till I  
was waked for

He got into Mujeres Abr very  
cute; had 10 p.m. dinner, before had  
rum + ~~Scotch~~ Scotch from 7:30 on. while  
waiting + cheese + sandwiches (the red)  
About 11:45 I got out dinner +  
our Etna top hanging in from. worked  
grand in the 1 hour current sailing  
on, but got most floater material  
+ few other things. Back (Randy)



Before, Alf in his meaningful, begrudging tone asked what voltage my bulbs was. I didn't know but all bulbs for signposts = 100 volts that was keeping the generator running. Is it hard on generator, no he said it's just burning gas. I offered to try gas, all be countered well by some of my bulbs of less wattage. I said I'd try but felt stronger light would serve us better.

---

He's only got ~~extra~~ five of us but he contracted for six people, & he gave him 250 toward radio.

---



think should do what we can to get our huge  
~~the~~ anguished collection that Clarence so  
well sorted and organized worked up then  
we have the men available. Heck we have  
a grand collection of crustaceans large  
and small, and from a marked up point  
of view we should make it the best in the  
world. I meant to put Dimer ahead of  
Bousfield, he is the quiet, not saying much but  
what he does say is worth listening too.  
He's promised to look after Ed, which is a  
big help, and is the type to do his part. But  
ever he wants to do the ecology of a mangrove  
swamp and that's why we shall put in about  
2 solid weeks at Espirito Santo Bay which  
seems to have all the kinds of terrain a  
marine biologist would want, or care to collect  
over. No, I expect we shall skip taking a  
look at that Chinchorro Reef or Banks. It's  
just another thing which with time available  
might not be worth the effort this year.  
Dimer by the way is another 6 foot 1/2 as is  
Bousfield a fine guy, both fit in wonderfully  
well. My opinion of the Capt I caught won't  
be left to future conversation. No  
comparison to Dostmund, in looks, education,  
background, nautical know how, and







Fenner 3

afraid as may be of sudden bad weather  
and unknown <sup>(to him)</sup> harbors which is true of  
every one we've been in or are going into.

He owns a big stake in this vessel & has  
all, and he's as jittery and cautious  
about it as we seem. (judging of, probably)  
to be of the type diamond. So it  
goes, he's my leman on this trip as  
Amos was in the last.

Boys my  
mail isn't giving you too much trouble  
there's nothing much expected and any  
that looks important you could open  
or have opened & and drop send a  
post card putting him off to mid-way  
or if it can be turned in officially, pass  
on to McLean or Registrar.

// Man in geth.  
Bensonfield, he's 10x what mass would have  
been, I'm sure, but I must confess you  
should first have another do-good man  
like Leo to help you out — or let him self.

My best to you all, staff, and home  
folks, and to your mother too Fenner.

Sincerely

Ben S.



goes after them. He brought the only <sup>(2)</sup>  
seine on board. I dashed him too because  
mine were out and all Schultz has about  
are trashy. So far the fish have been small  
and required not injecting. I hope, and ex-  
pect the kind of man he is that that job  
will be well done when the time comes to do it.  
He still shucks, and may yet prefer it to the  
injection method which however makes for  
better specimens. Rehder has improved  
over Dalitz. He was there the most organiza-  
ble, but had the other two to follow or  
copy. Here with comparative strangers in  
the party he's carrying more <sup>(perhaps, I think)</sup> his share of  
load and taking suggestions to do this or  
that. Jads of course is on his own and  
always the cheerful member and one of  
the hardest working. True he does no in-  
vertebrate work other than insects, but I always  
feel supported, as you know I need to be  
with my idiosyncracies (in the foregoing)  
— something I did not get from Baker  
or Tamm who seemed to be inclined toward  
<sup>(though not so much as I)</sup>  
Jads. & Schultz for present and past.

The Captain is a sullen guy, or has  
become to be, and jittery as H about Rand



in places he's never been before which is very  
 these here, and afraid of sudden change in  
 weather which at this time of the year gets  
 better by the month. June being about the  
 best quietest and safest (with less wind) than  
 any of the others.

We arrived in San Miguel,  
 Azores Island, yesterday about 8 pm. The  
 boys all went up about 9 pm to see the  
 town which is small modest and well lighted.  
 A sprinkling of tourists are here; there's a  
 hotel now, and the place has gone in for  
 that kind of business, as has every place  
 with a warm sunny beaches, a la Florida.  
 However, I do not propose to stay long as  
 we shall be back on 24<sup>th</sup> to go to meet Mr.  
 Bredin in Merida, and on the 27<sup>th</sup> start for  
 the Caymans and home.

This will just  
 about be the last word of any length for  
 next three weeks, though we put in here  
 again for water after 3-4 days on rocks  
 at north end of this island, Azores.

Things are going quite well except  
 for Capt. who is more glibly accepted than I am.  
 For a charter boat captain he's not as cooper-  
 tive as I would like to see. Hope I did not

to much influence or help.

leave



// Our food  
or diet hasn't been much. I think Capt is  
skimping and saving on it all starchy  
+ starchy "desserts" if you can call them.  
That pound cake from States, and a  
sort of pound cake cup cake - that he  
bought enough of in Mujeres for two weeks.  
Seems to me I mentioned food above. I  
left this letter open to add something in.  
P.O. but got up at five to do some sorting.  
I had not finished at Mujeres, and so I  
started in on this again. // Weather has  
been consistently windy, but exhilarating  
while sailing but it does make work on  
board difficult, dredging from his small  
boat wet, and collecting on the reef  
a bit and miss proposition. - He waves  
wash things away from under a rock as  
soon as you lift it. // So far so good  
with the expedition and with me. I hope  
things have not been too hard on you,  
but time seems to be passing fast at this  
end and that you are not too late.  
You don't want to go down once more to  
Barb's before I get back? You might get



(4)

that I guess the roof-man still hasn't  
come. There is no hurry and he'll do a  
better job if he does it at a slack period.  
Sorry I'm going to miss the azaleas again.  
Well, this should be the last. Then next  
year I'll see everything in bloom at  
home.

Wanted to say how I'm  
Lots of love, and wishes I were  
home right now. Most to goodness.  
Tell me all about yourself next letter,  
any more from Dad or group health.  
Don't you think we ought to try an out-  
side man. What is it if you are not better.

Be seeing you before long.  
Love to you and Babs and kids  
and Bob — and Richard —

From old Grandpa.  
Should I say what's  
to be done with it.  
Best love  
at home long L.



Last sheet Deal buyer letter

To see. It was the Consul here in Merida <sup>(2)</sup> who said we should not fail to pay our respects to him. The Admiral made most trouble about the collectors permits which we were given, and so a call with Brooks card should be quite in order and appropriate. We should be ~~here~~ tomorrow noon the 23<sup>rd</sup>, but may the formalities soon be over. I want to pick up a few invertebrates before we have to start back to the States.

Is it true about Conrad Linbaugh → its terrible. What could have happened to so an experienced man, over confidence?

Except for eating and sleeping no real exciting news. We are all well, and no seasickness. Thanks goodness. Have rigged our little dredges with the wire baskets, put vials in a convenient place, built a bottle rack out of crate slats to sit on top of deck house. All set but no chance yet to try out the setup.

Ann's Mum? Wish you were here. It looks as though the cruise will be fun of a kind when we get onto our first reef, and Parker his first mangrove swamp.

Best ever from all of us to staff and mutual friends, and my especial thanks to you for your good letter. Sincerely,  
B. Palmer



Island of Cozumel  
Raul Gonzales  
Cabañas del Caribe  
→ Emmet Gower  
Boca Paila

Island of Mujeres  
Rear Admiral:  
Armando Cañizares  
de parte  
Pablo Bush-Romero

Pablo Bush Romero  
Ave. Jalisco 127  
Mexico, D.F., Mexico  
Tel 15-69 - 81

Send token to

Jorge Gonzalez A.  
Tuncah —  
Quintana Roo  
via Cozumel  
Yucatan

Life Photo  
Antonio (Tony) Balik  
German

~~weather~~ 16. IV. 60 Saturday, Ascension Bay. We are in tropic latitudes  
 norther 27°C = 80°F on deck.  
 28°C = 83°F below

arrival is freshened by heavy cloud  
 bank on the northern or northwestern  
 horizon, and sometimes by lowering  
 barometric pressure. Upon arrival of  
 the squall line, the barometer rises rapid-  
 ly and the wind with a force of 7 to 9  
<sup>bursts</sup> gusts suddenly from the north or west

Wacatan

Only 1% = calm

April. 70% winds N.E.

41% = Force 4 = 11 knots

22% = " 5 = 21 knots

10% all winds from Northerly. = Force 5 = 11-21

20% E winds Force 10% 8  
 10% 10?

25% all winds = Force 5 = 21 knot wind

Force temporales, northerly Mar. April hottest

50-60 inches rain

75°-98° in shade  
 Cool/sea winds prevail  
 part of day & night  
 Throughout year

Wet season begins Dec.  
 runs to May 3. (Santa Cruz Day)  
 May rain is as early as Mid April  
 or hold off till mid June  
 Nights cool due to trade winds

Temp. never above 107  
 or below 39  
 av. maximum in 80's  
 av. minimum in 60's

Morley in Coast Mar



27°C = 80°F (on deck) Saturday April 16, 1960  
28°C below decks = 83°F 16. IV. 60 we are in the Caribbean Bay

→ ~~The Winds - Yucatan~~  
It is soul satisfying just to stand on the gently rising and falling deck, facing the Yucatan, the N.E. trades blowing down from across the wide Atlantic. (So happens

This very evening the wind is from the S.E. at 10 knots more or less.

It is a feeling of ~~comfort~~ complacency, and well being ~~to face~~ <sup>feeling</sup> the wind, for the first time in several days from the S.E. Gently the breezes blow in your face Gently the ship rises and falls to the Gently rolling sea that passes beneath the keel.

You feel content except for the fact that those dear to you are not here, But otherwise you are at peace with the world, your fellow men, and the world at large.

You are facing the Yucatan ~~the~~ winds of mid April and enjoying them, despite their insistent persistence of each ~~day~~ <sup>each day</sup> ~~moment~~ day and night. You are

16 IV.60

Sat. April 16, 1960

Ascension Bay

#(2)

off the east coast of Guatemala  
Hoo. The place of fable and  
of history, of the unknown and the  
explored yet the heart of the  
Maya country (empire that was.)  
The home of one of the world's great  
civilizations, the home of an intelligent  
advance people who produced the  
world's (finest) most accurate calendar  
that the present N. Atlantic  
civilization has not seen fit to make  
use of it

As you breast the wind, and  
as the ship rises and falls you  
forget that you are not anchored  
You're moving forward at a fair  
pace, you are moving through  
the water or so it seems at fair  
rate you are going places <sup>on this</sup>  
but it is only the wind driven sea that hinders you

goodness of wind and water  
the feeling of  
that gives you



going places on his storied coast  
of Yucatan. <sup>Ascension #3</sup>  
16-IV-60

We are here, we seem to be hurrying  
into the great beyond, with a fair  
wind and a seemingly speedy ship  
that equals his wind of 10 knots  
more or less, <sup>as</sup> great as he estimated  
speed of his — schooner that  
served her time as a patrol boat,  
coast wise in the facilities furnished  
and available aboard the Blue Goose  
~~our~~ floating laboratory <sup>for</sup> these six ~~at~~ aboard  
Cor shall ~~we~~ say, at anchor, for we  
got boat hooks out and down.

Except for yard crew and  
mess, who wants to be at a different  
place, all there at a different  
time.

Dinner { Fish, extremely salty, mashed  
plants, burnt in butter.  
Chow, pudding, coffee  
peaches, milk + canned milk (Royal Milk)  
and pineapple  
mashed dairy

Toms?  
Bowman

relative abundance of  
amphipods, Barbuda  
picture or photo of one or both  
drawing of  
whole animal + indication of actual size  
line — mm long. (set in  
typed printed legend.

Spreader of shrouds of cross tree of  
mast

Did EATING bats  
Saw but failed  
to catch

inspired in guano  
no thick D.O. pieces.



Elliot & Schott collections =  
Ralph C. Elliott 1939

- Quintana Roo  
1 *Behnia*, *Behnia* *Behnia* *Behnia*  
2 *Callinectes marginatus*  
3 *Cypride allitans*  
4 *Cardisoma guanhumi*  
5 *Malus pasinii*  
6 *Plagusia depauperata*  
7 *Zeacanthus lateralis*  
*Mikras vrythe*  
*Orchelimum caranum*

collected June  
sent July 1  
for her collection

for Petrie  
shell  
study

All in  
Gold  
of  
Cape de  
Buenos Aires  
Lat.  $17^{\circ} 40' N.$   
Long.  $92^{\circ} 30' W$   
25 fms. July 15/1932

Arthur Schott with Max Bondy  
Oct. - Jan 1851-52

*Candylactis gigantea* (Weinland) 1860

*Aptasia vagantea* Reich & Mich. 1866.

*Pelagia cyanella* Peron and Lesueur, 1809 (large one)

*Linuche unguiculata* Escholtz, 1829 (small one)

~~Albatross~~ Off South end Cozumel ~~Albatross~~  
 1885 hrs N W

1.	2356	Jan 29	137	Tgls	20.18.50	87.03.10
2.	7	"	178	do	20.19.00	87.03.10
3.	8	"	222	S.B.T	20.19.00	87.03.30
4.	9		231	do	20.19.10	87.03.30

Arrowsmith Banks

5	2353	Jan 22	167	Tgls	20.59.00	86 23 45
6	4		130	S.B.T	20.59.30	86.23.45
7	5		399	S.B.T	20.56.48	86.27.00

Alicran Reef

8	2367		124	S.B.T	22.38.00	87.00.00
---	------	--	-----	-------	----------	----------

~~58971~~  
 97145  
 1581  
 sec

153134  
 1101



Feb. 14/65 A. Schott Wrote to Walter Ser

Then my family rec'd only 1 letter since  
I left Rome it was dated Nov. 17 + 2  
months on way

Impossible to travel east + South of  
Valladolid, to British border.

Hostile savages, said to be  
lead by some white miscreants  
+ some British subjects

Has lost half population in last  
20 yrs

Wanted spare  
specimens sent  
Royal Museum  
in Stuttgart  
They could exchange  
fossil remains

Schott

Asked for  
Keith Johnston's

Atlas of Natural Olenokmena  
Edinburgh, 1850 (perhaps Amer. edit.)

S.F. Fine Bird mentioned, referred  
to in Schott's letter of March 14/65

Wanted Australasia to go to  
Stimpson

Merida Yucatan <sup>A. Schott</sup> 1865 - March 20  
June 1.

Alligator

Sept 30

1st day 2 grains  
2nd day 2 grains of  
crystalline strychnine  
Killed him after 11 hours moribund  
Straniny (Straminy?)  
Sulzar

Received 1866.

Date sent off 1865

Oct 28 rec'd  
Sept 30 letter

In a few days from  
this we will see here  
Emperor Maximilian &  
the Empress, about which so  
the people of Merida are  
in a great stir. Nothing can be done now  
in any way.

The South and East of this Peninsula  
is inaccessible for us from this side  
[Merida] on account of hostile Indians.

Been here 10 months  
& got nothing straight  
The climate,  
though rather reptilian,  
is not an unhealthy one

Aug 17. 1865  
Rec'd. Oct. 16/68  
Barrido July  
letter rec'd in  
- Aug 17, 1865



A. Schott

From lists sp's collected  
+ sent S.F.

(X)

840

Auschedia macrura

Soricate XII. 21/65

Progress

(X)

843  
844

Auschedia Simuludo do 22 dr

" Brachyura Progress. do dr

875

Echininae

876

Stelleridae

dr. 23 dr

(X)

887  
888

Auschedia Brachyura

Progress  
XII. 31/65

Progress in 8 layers due north of meridian  
Nos 1 - 45

Nos. 1 - 47

Collected  
hush. D. O.

(1854) Jan. 12 gave  
list of places to coll.  
while with  
U.S. - Mex. Boundary Comm

attached are following letters

Nov. 21, 1852 wrote for camp at  
Eagle Pass Texas.

and June 17, 1852

New Orleans. Feb. 8. 1853 dr Apr 29/53

A. Schott

From list of sps  
collected + sent sp?

364 Echini, Grot of Yucatan  
at Progreso & Laguna  
April 10/68 N.Y. Merida

365 crabs

366 - 9 Trilobes Progreso sp. 6 [W]

370 Holothurina

371 Asclerina

377 Crab

378 "

Comision Cientifica  
de Yucatan

I. Larregui

Pisces 1 spec. S. S. 1 XI. 10. '65

Crustacea, macrura, Pagurus ibid  
List of alcoholic spec's of N.W. Yucatan  
collected + sent by authority of  
His Excellency the Governor of  
Yucatan S. J. Jose Salazar,

In further examination  
by the Smithsonian Inst at  
Washington, D. C. &

Arthur Schott  
Naturalist of the Scientific  
Commission of Yucatan  
from Merida, Dec. 20, 1865



in 1004 Chichu Itza  
X'may  
Mayapan } Triple  
Alliance  
= Mayan renaissance

in 1201 Mayapan with Toltécs  
from Mex conquered Itza  
from 1201 to 1448 Chichu Itza  
was held in thrall by foreign  
rulers. Toltécs Aztec  
foreign influence made it a  
still greater city -  
Castles, principal temple of  
Kukulcan  
Ball court  
Caracol

In 2½ centuries 1201 - 1448 AD  
more buildings went up in city  
than had been built in the 6 six  
centuries six centuries earlier  
Final eclipse in middle of 15th century

1511 First Europeans made Lothrop.  
Contact w. h. Maya.

1518 saw Julian

1571 French raided Cozumel

1598 Eng established themselves in Cozumel  
and attacked again.

1600  
1601

1636

Independence of Indians recognized  
in 1913.

Beginnings of culture goes back to  
1000 B.C.  
5th to 3rd centuries B.C.

3500 years after beginning of  
May chronology  
1930  
1570



The

4 ships 200 men.

Juan de Grijalva expedition ~~April~~  
~~1518~~ discovered Ascension Bay on  
Ascension Thursday, <sup>April</sup> 1518.

probably the discoverer of

Isla Mujeres first visited by Francisco  
Hernandez de Cordoba Exp. 1517 <sup>but went N.W. from there with current.</sup>

1511 First white men reached Yucatan.

12 cast on low Yucatan Province Ekab.

5 killed and eaten

7 spared, escaped, enslaved all but

2 died. Gonzalo de Guerrero

cast lot in with natives

pestilence which followed for 5 yrs. later.

Grijalva left San tiago <sup>de</sup> Cuba

Apr. 8, 1518 reached Cozumel May 3.

May 7 left for Yucatan, arr. Here May 8  
<sub>next day</sub>

Bahia del Espíritu Santo 10 miles wide.

Bahia de la Ascension 8 miles wide  
coral. low + densely wooded  
degedes - 16 miles 5 to 11 miles  
(Punta Allen - Punta Nicchehalin)

Cozumel 9 miles off shore } 24 miles long  
ave 8 miles wide

entering coast is fringed by  
most places by a steep to reef  
that extends up to 1 1/4 miles off  
shore. The 100 fms. across marks

the seaward side of the reef  
Cruzal Id. to Cruzal Bank 5-22 fms. nearly 30 miles

Kilbride Cliffs. 80 feet high.  
from coast for about 3 miles  
at northern end ruins of a  
large square watch tower

Tanch. white sandy beach.

Isla Mujeres 4 miles long, 3 to 5 1/2 miles off shore

Anchorage San Miguel 5-6 fms. hard bottom + poor  
holding ground. 300-400  
yds off beach.

Cozumel Bank 6 fms. sand.

Mujeres 26 feet fine sand.



Morley ~~From~~; The Ancient Maya Morley  
Tulum 59, 60, 73, 101, ||219|| 345

347, 420, 425 (incense still  
burned in 219  
as late as 1920)

Tulum 564 A.D.

Ten new cities appear in  
2nd quarter of Bakkan 9 (584/633)  
1167

Like Tulum one of 5 cities, all shorts  
allies of old Empire.  
contemporaneous with last  
4 1/2 centuries of old empire

<sup>P. 101</sup> Tulum  
a he perceived a city a town or large town  
which would not have seemed more  
considerable a better, or rather better  
a very large town; "

Said to burn incense in courtyard  
Tulum P. to as 1920's

Tulum 73, 59 60 Miles  
101 (Quotation 35-40 Tulum from Asuncion  
from Cozumel  
219 incense 85-90 Chichen from Uxmal  
345 in shadow 100 miles Tulum to  
347 of the Chide  
Castill 25 " " do Cuba  
Tulum 85 " Caba + Chid.  
1946 110 Tulum to Chi.  
no longer  
so did not  
inquire

semi independent  
Maya of eastern  
Yucatan  
219  
corbelled  
in 564 arch  
Flat bottom  
roofs  
Tulum  
Wall hangs  
more common than elsewhere  
entire front  
1946

have written

Morley ~~Frank~~; The Ancient Maya Morley  
Tulum 59, 60, 73, 101, ||219|| 345

347, 420, 425 (Incense still  
burned in p. 219  
as late as 1920)

Tulum 564 A.D. Ten new cities appear in  
2nd quarter of Baktun 9 (534 to 633)  
1167

Like Tulum one of 5 cities, all shorts  
allies of old Empire.  
contemporaneous with last  
4 1/4 centuries of old empire

<sup>p. 101</sup> Tulum  
a he perceived a city as large as large that  
people would not have seemed more  
considerable a latter, as said that  
a very large lower;

Said to burn incense in country  
of Tulum. as late as 1920's



Tulum 1924 { Had just <sup>Lothrop</sup> gotten  
Lothrop ~~independence~~ recog-  
nition as citizens  
in 1922.

(recent <sup>1924</sup> attempts to exterminate the  
Indian

Shore white coral sand replaced at  
times by swamp and mangrove  
Ascencian Bay northward are shelter  
of limestone cliffs fronting the sea.  
→ Highest piece is flat on which city  
of Tulum stands

Open 100 yds to mile off  
shore barrier reef

Tulum is midway between Ascencian Bay  
& island of Cozumel

Carnegie visited 1916, 1918, 1922.  
Howe, Holmes, Prince Lilla of Sweden.

Ten new cities appeared <sup>(second quarter of 1st c. AD)</sup> 534-633  
 59 { Tulum 564  
 60 { Coba 623

73 || 21 surely dated monuments & buildings  
 at 10 ~~places~~ in Campeche & Quintana Roo

5 least coast dated cities  
 Tulum - Coba - Chichen Itza

Tulum 3d class but to me always  
 1st class ~~low~~ Corbelled arch  
 reach Tulum (564) A.D.  
 Stela 1, Tulum 564 / Coba 623

Small pot  
 Valdivia

p. 100  
 Originals  
 Expd. 1518  
 1st Cozumel

633  
 642  
 652  
 662  
 682  
 684  
 732

\* Chichen 879

Itza Mex  
 group established  
 near Kupar (919)  
 Chichen 968-987  
 but had been previously  
 occupied 4 1/2  
 centuries earlier  
 circa 469?



Beginnings of Maya civilization <sup>Lothrop</sup> goes  
back several thousand years before  
the birth of Christ.

Emerges in barbarism in first  
10 centuries B.C.

Great expansion took place at  
beginning of Christian era

→ First 6 centuries after Christ  
built & dwelt in ~~most~~ of great  
cities from Gulf Mex to Bay of Honduras

Centuries later again rose to high  
plane.

American cultural achievement still  
remains the final phase, the Great  
Period of the Maya Old Empire.

Between 541 - 610 A.D. successfully attacked  
old cities & moved thence to Eastward into  
Yucatan

O.F. Cook U.S. Bur. Plant Industry <sup>Bull 195</sup>  
Had to move fertile fields moved far  
away from cities

Mayan Culture — as early as  
5<sup>th</sup> - 6<sup>th</sup> - 7<sup>th</sup> - 8<sup>th</sup> — in 500 century  
reached northern by way of East Coast.

Northern Yucatan. remain a provincial  
per. pheral region of the Old Empire  
(Much as did Roman Br. Britain Rome)  
in 11<sup>th</sup> and 12<sup>th</sup> centuries achieved (L.N.)  
a true renaissance. / Second decay  
in 13 - 15<sup>th</sup> cts  
to suffer final loss of their political inde-  
pendence at hands of Spanish. at end of 17<sup>th</sup> c.

Within outlines of Yucatan Penin. during period  
of 2000 ya  
Origin, Rise, Florescence, decline  
renaissance, final decay, and collapse  
roughly 300 B.C. to 1700 A.D.

Its origin rise & first florescence in Old Empire  
were exclusively due to the native genius of the  
Maya peoples.

The decline of the Old Empire appears to  
have been brought about by conditions incident  
to its own development, the very price, as it were,  
of the brilliant Maya cultural advance

Yucatan Maya (extend into Guatemala & Br. W. Indes)  
N.E. corner of N. W. 3d.

2 - 3000 years B.C. —  
Beginnings of stone architecture { 353 to  
317 B.C.



Accumulated food reserves.  
gave leisure / time worked in free

- During 8<sup>th</sup> century cities of old  
empire ceased to build temples  
(North reached its cultural zenith  
in 12<sup>th</sup> - 13<sup>th</sup> + 14<sup>th</sup> centuries).

Primitive syst. agriculture  
turning brought about decline  
+ turf which ~~had~~ choked <sup>growing</sup> corn

by 8<sup>th</sup> century after a thousand  
years of intensive alluvial  
grass lands replaced  
forests

during 13, 14<sup>th</sup> + 15<sup>th</sup> half of 15<sup>th</sup>  
under strong Mex  
influence

P. 155

9 1/2 to 10 months for men  
with food producing activities  
so much time Maya has been exploited

for last 2000 years (1946)

1st by his native rulers + priests

2nd by Spanish conquerors civil & religious

3rd more recently by private owners <sup>in</sup> haciendas  
of Yucatan

During 7<sup>th</sup> century were forced to  
abandon the Old Empire region

Yucatan was [explored] discovered  
Morley says as early as latter half  
of 5<sup>th</sup> century

Chi = mouth = Chan wells

Chichen Itza Mouths of the wells  
of Itza

was founded not later than 530 A.D.

Chichen Itza is the  
city for 5 centuries after  
old Empire had been buried by  
jungle. great to be largest city of  
her day.

Aug 28, 617

(was abandoned at time  
old empire cities were  
in 668 city was  
abandoned.)

After fire devastation  
Chakanputun is  
944

went back to

C. Itza in 964

moved to Chakan  
putun

where they lived  
for 2 centuries

At this time southern tribes already  
moved out of old Empire, and founded other  
new ones.



no confusion exists between  
any two days within a period  
of 370,000 years.  
Predicted eclipses & phases of  
planets

check  
370000

Maya arithmetic.

350,000  
ages of diff Maya cities  
more exactly - than we  
shall ever know! The ages  
of Babylon, Jerusalem, Memphis,  
Thebes, Athens, a even Imperial  
Rome for self.

These 3 sheets  
Calendar, astronomy  
arithmetic

In writing astronomy, arithmetic  
calendar.

inventors of writing in the new  
world.

Maya developed man's first  
positional arithmetical system,  
one involving the concept of zero.  
This is among the most brilliant  
intellectual achievements of all  
time.

Calendar

Knowledge of astronomy superior to  
that of ancient Egyptians.

most brilliant aboriginal people on the  
planet

400 yrs B.C. calendar.

Britannica = Precision in time reckoning  
First requisite of science is  
accurate measurements  
Rising and setting of sun over  
fixed monuments.



? Nat. Geogr

Approximating the Ancient Egyptian  
& Babylonian

Invented a chronology exact to  
the day within a period of 374,400  
years. Is as accurate as our own  
~~date~~ calendar.

Feb. 1922

numeration by position & use  
of symbol to represent zero  
was devised by ancient Maya  
2,000 years ago and at least  
500 centuries before Hindus had  
developed the fundamentals  
of Arabic notation.  
were able to predict eclipses  
determined the length of the  
tropical year with as high de-  
gree of accuracy as the Jews  
XIII did a thousand years  
later

$\left. \begin{matrix} 692 \\ 236 \end{matrix} \right\} \text{yrs}$   
 928  
 236  
 692-692 Chul Itza abandoned  
 928-948 moved back.  
 1185-1204  
 1441 1466  
 1697-1717

Ch. Itza abandoned 692  
 after <sup>200</sup> 10 score years since 495

- New Empire 3 periods  
 I Maya Renaissance (League of Mayapán)  
 987-1194  
 II Mexican Period.  
 1194-1441  
 III Period of Disintegration  
 1441-1697.



Maya her Empire  
AD. 1000 to 1200

Pilgrimages to Itza

9 ball courts at Chichen Itza

The Great Ball court.

Of the Mayan system of keeping  
accounts of passing time - that  
is, their chronology - was more  
accurate than anything known in  
Europe, Asia or Africa before  
the time of Pope Gregory XIII  
and it is an open question  
whether the Mayan chronology, in  
the field of elapsed time, is not  
more accurate even than our  
Gregorian Calendar.

Schuchert.

Seler p. 1224

Cannizzo Ont.

403

593

558

Architecture p. 607 et seq.

Caza y Pesca p. 905  
adn net figures

Fulm pesca.

Culturas del Sureste

Art + Technica.

p. 1185

~~p. 1239~~  
p. 1239

Hubber pers. arch of 16<sup>15</sup> Ant  
New Haven 1948 2 vols

Mariscal  
Arch. Technica, Gann,

Lathrop. { Arch. Technica Record  
V. 57, N. Y. 1925



El Caracol to the East of the  
Mayalan Huipile

El Caracol from the Mayaland Hotel  
Huipil porch of the porch

single ridge to the hole  
side with arm  
to the with cut for  
& square lead. substance  
crossed

3000 B.C.

rebozo pic

about 300  
B.C.

to 987

med. period then  
1194  
1441

dim. tomb  
1441  
1692

Old Empire

ad. 320 - 987

new. 987 to 1527  
when Spanish conquest  
began.

with the coming of  
Spanish conquest  
red in

Tulum <sup>Morkley</sup> center of 3d Class (Large Towns)

△ Chichén Itzá First Class. {Mediodis

p. 70 mediocrity mixed in elaborateness of sculpture; <sup>many buildings</sup> abstract of today

Tulum A.D. 564 416 + 435

Chichén Itzá A.D. 879 discovered 455

Lived there 200 yrs since (495) left in 692 abandoned 692

Stela = Temple of initial series. 879

Chich Itzá rec. 987 <sup>ruined</sup>

Uxmal founded  
bet. 987 + 1000

1007 Uxmal founded end of antiquity <sup>central</sup>

All large cities abandoned 1461

Hurricane 1464.

1500 Spanish + small

Chichén Itzá + Uxmal <sup>best preserved + has</sup>

greatest cities of New Empire

in 11<sup>th</sup> + 12<sup>th</sup> centuries under peaceful conditions

enjoyed a prosperity never equalled before or since

Ended 1194 in disastrous civil war between Quetzalcoatl + Mayapan

Final conquest by Spanish. in 1527 to 1546



Bothrop  
Tulum  
Above limestone cliff  
some 40 feet high  
which faces the Caribbean Sea  
Great wall (so called)

2,352 feet long  
Central portion  
of great wall  
is 15-20 feet  
high and thick

Main stairway  
is 30 feet wide  
and 25 feet high

Building (structure)  
over all 38 to  
40 feet high.

Central figure  
is diving god  
northern figure  
is erect

southern one  
has disappeared

Tulum 633-790  
A.P.

Castillo citade or acropolis  
or principal temple  
from <sup>one of</sup> entrances <sup>in the</sup>  
~~the wall surrounding the~~  
wall surrounding the site.  
Dr. Clarke by this entrance  
~~the great wall was seen.~~

House of present caretaker  
or guide at Tulum

Wife and ~~little son and daughter~~  
children

The caretaker or guide at  
Tulum. The house is surely  
like many of those in which  
the Mayas may have lived  
The daughter

The sea and shoreline  
looking north. From  
the Castillo

El Castillo

Pyramid Temple of  
first order

75 to 80 feet high

200 feet square at base.

stepped sides rise at angle  
of  $50^\circ$  stair ways a few  
degrees less, & hence project  
a slight beyond the pyramid  
at the base.

105 feet  
in height

The slopes rise in 9 steps of  
eight to nine feet each.

The terrace offsets being one  
whit narrower.

The stair ways four in number.

The temple fronts a few degrees east of  
north and stairway on that side is  
44 feet wide & contains 90 steps.

"I counted 92 steps on west side  
rises 11 inches & treats 10 inches

Temple leaves platform of about 5

feet wide on west with a last

and 10 to 12 feet wide on north

front Temple 25 feet high =

twice  
the  
on N.  
side



El Castillo <sup>from May</sup> guide book

91 steps  $\times 4$  364

steps plus upper platform

365 days in solar year

52 panels nine terraced steps.  
= number of years in the Votec  
cycle.

The nine terraced steps. = 18  
sections  
on each side = 18 months at  
the yearly May calendar.

23 yds high

69

$\frac{69}{23} = 3$

60 yds long

180

nine terraced

Castillo 0.93 T2222.

Is the greatest and most dignified  
temple on this site (Chicken Itza)

Covers an acre of ground

stairway 37 feet wide

45 degree

103 steps to summit

North entrance is 20 ft wide & has  
3 doors (2 columns) (feathered  
carpet column).

Chicken Itza

Ball court walls. 275 feet long.  
South Temple 80x16 34 feet thick  
25 feet high.

Ends  
Rect. space 450 feet long & 120 wide

The reports of a

For my information on the ancient Mayas  
and their works have been called  
by a number of authors, chief  
experts

Tozzer, Holmes, Morley,  
Lothrop, <sup>some of</sup> whose ~~own~~ works under these  
names will <sup>at least</sup> come to light in <sup>most</sup> any library  
open to the public

Tozzer Purely Maya Period at Chichen Itza ended 889 A.D.  
Castillo restored 1906-1930  
1930 discovered Templo oculto  
Toltec - Maya Stage "A." 948-1145  
Toltecs abandoned Chichen Itza at end of  
their regime about 1150 A.D.  
Chichen Itza founded not later than 530 A.D. (Tozzer  
p. 190)  
100 yrs later became great; Abandoned 668 A.D.)  
returned 962 A.D.; 1004 Great Alliance  
1201 <sup>begin</sup> greatest glory  
Mecca for 2 1/2 centuries till middle of 15<sup>th</sup> century  
then suddenly  
& finally  
abandoned



Ball court.

54500 long on outside x 225 wide  
inside 480 feet long x 120 wide

48

Caracol.

41 feet plus term.  
of 31

a line of eight bisects the  
sun on March 21 and again on  
Sept. 21 at the vernal & autumnal  
equinoxes, respectively  
Other lines coincide with the

The temple of <sup>war, ad</sup> ~~the~~ warriors (B)  
with ~~the~~ columns.  
its adjoining plaza of ~~a~~ <sup>the</sup>  
Thousand Ashes.

510 feet fr N to S.

465 feet from E to W.

Has it ~~any~~ <sup>not</sup> ~~infused~~ <sup>infused</sup>  
in ground ~~to~~ <sup>by</sup> ~~the~~ <sup>at</sup> ~~the~~ <sup>the</sup> ~~temple~~ <sup>temple</sup> ~~with~~ <sup>with</sup>  
its — ~~far greater~~ <sup>more massive and</sup>

At of this temple we have  
~~seen~~



Nat'l Geogr.

Feb. 1922 (calendar)

XLVII p. 63, 1925

LX p. 99, 1931

LXX p. 591, 1936

Acc. 153, 134 Ralph Elliot

Acc. <sup>1939</sup> 121, 051 Warren  
1932 Fish Co.

Nelson and Goldman 1901

Albatross 1885

A. Schott (Progreso) 1851, 54, 62, 67, 68, 1865

Spreader

of shrouds  
of mast

Cross-tree

of mast





Face masks, snorkels  
and in commission equipment. P. 1000 13.

STEVES, J. 1000 13. and a box of  
syringes for injecting fish. Tools, instruments, magnifying  
glasses, containers, from little shells vials  
bottles, quarts and half gallon jars,  
to 16 gallon tanks, plastic water  
proof plastic bags, are among the  
latest of containers for well  
picked specimens. Once carefully  
preserved in formalin and  
alcohol specimens can be  
shipped ~~any~~ ~~these~~ ~~bags~~ ~~of~~ ~~liquid~~  
without liquid, if tightly well  
sealed ~~the~~ ~~bags~~ ~~are~~ ~~well~~  
sealed ~~to~~ ~~prevent~~ ~~evaporation~~  
drying ~~the~~ ~~liquid~~ ~~contents~~  
if gas drying out is pre-  
vented can be shipped any  
distance where

~~But the bags must be~~  
tightly sealed, to prevent

if the bags are ~~sealed~~ ~~to~~ ~~prevent~~ ~~drying~~  
out of the contents. These flash



[illegible]



The ~~rest~~ The history of  
Uxmal (ookmal) goes  
back a thousand years  
can be traced though  
unlike Chichen Itza seems  
never to have come under the  
Yoltec influence, and so is  
more purely Mayan. Its  
greatest structure is the Pyramid  
of the Magician, but grouped  
~~in its vicinity among others~~  
~~are some remarkable~~  
buildings, the Summer Palace of  
the Governor, ~~House of the Sun~~  
and the Dove-cote recalled

(At evenings end in Maya  
At hotel)

(Masanic monument)

~~in the 18<sup>th</sup> & 19<sup>th</sup> centuries.~~



Carrying home their ground corn. After grinding, the meal is made into a dough and baked as the well known native tortilla. Formerly the corn which is first dehulled by soaking and heating, was ground at home between stones, roller and a flat understone. Today in every village or town there is a local mechanical mill to which all house wives resort as these ~~two~~ <sup>families</sup> have. Some have small hand-operated mills at home. <sup>41</sup> These women

are wearing the characteristic every day native dress, the hupil, a sac-like garment <sup>of white cotton</sup> extending below the knees with square cut opening for the head, and arm holes, now-a-days usually provided with short sleeves.

The margins as well as the bottom edge of this ~~slip~~ <sup>slip</sup> is generally ~~made~~

~~made~~ colorfully embroidered in cross-stitch although the cheaper ready-made hupiles <sup>of commerce today</sup> are merely color-printed. Underneath is <sup>worn</sup> a petticoat

hanging well above the ankles. Both these articles of dress <sup>seem</sup> are always <sup>to be</sup>

spotlessly clean ~~and white~~. The darker colored scarf — rebozo — over the

head, and variously draped over shoulders and arms is always worn away from

home. Without it the Mayan woman feels not properly dressed <sup>for going out.</sup> ~~on the street~~

Bare feet are ~~the~~ usual ~~was~~ but sandals or slippers, or shoes of a kind

are increasingly worn, especially on festive occasions.

# Free Lance and Curibee. <sup>Cover</sup> ~~From~~

Calc:  $7 + 10 = 3 + 7 = 17$ .

1, 2 Mangrove root growth. (2 Views of swamp.

growths on roots

anemones

sponges

Red ascidian

Carnegie  
Corals before  
& after

3

4

5

6 Picture of dredge

Schuster & boy  
digging for  
Oey poodle.

7 Collecting  
8 methods

Seine & long line

plankton dipping

pan of plankton; dip net. (Pasmona)

Sorting specimens  
at night

Electric light  
over side

11 Turning rocks or working in reef.  
(=shore collecting)

12 Ish's trap

Rock cracking

13 Aquarium shots of anemones ? any good?

14 Floating jelly fish.

15 Aquarium shot of same

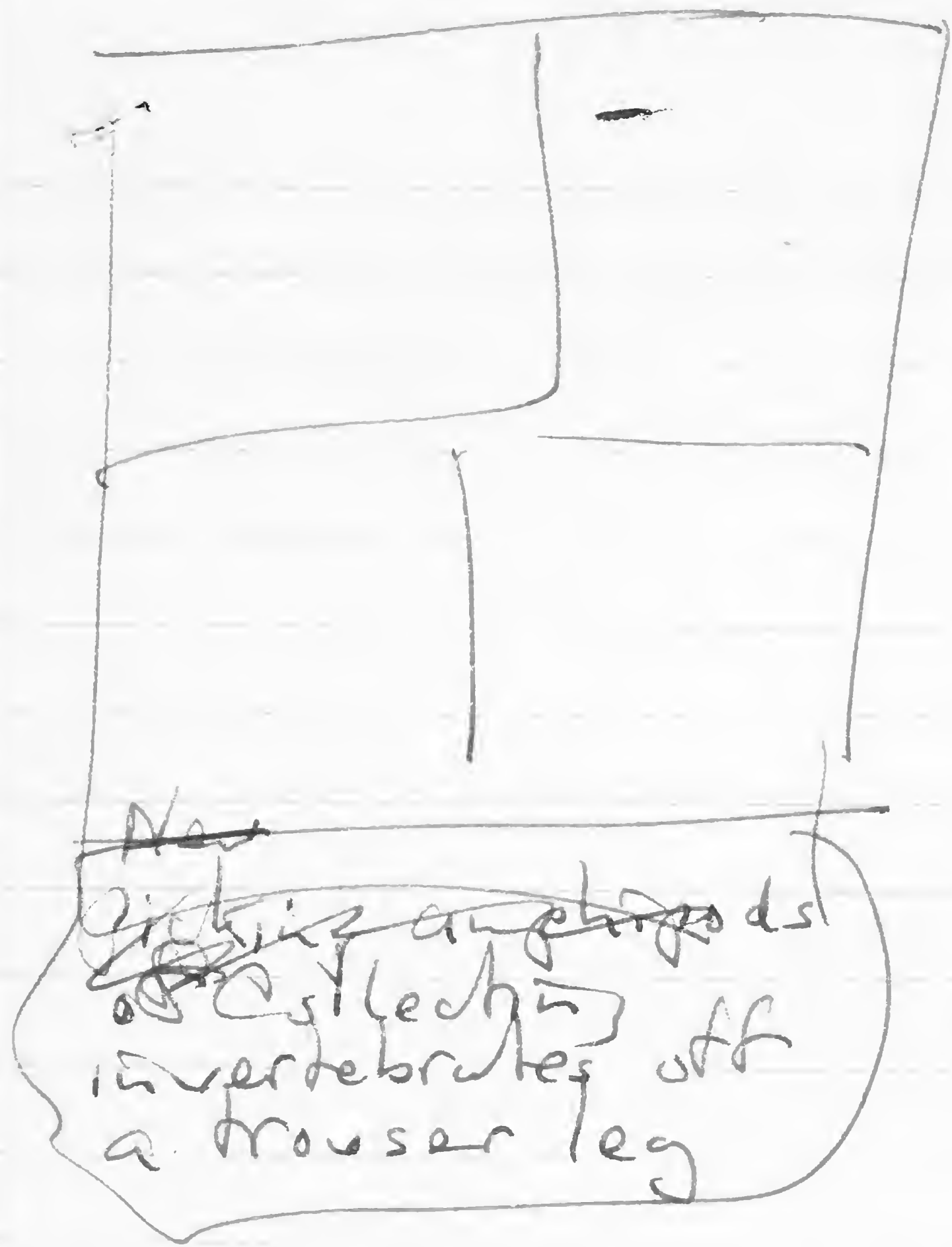
Ovintana Roo Monument

\* Chart

S.I.  
Seal in  
one square?  
of page







120 ±

Where the nearest  
fish will make ~~short~~  
~~work of them~~ and  
~~so climb down or~~  
~~crawl up the~~  
nearest seek the  
nearest escape up  
his wet trouser leg  
where they can be picked

~~Here~~  
R Clarke developed  
~~do~~ <sup>all of</sup> ~~yes~~ a new and  
startlingly successful  
way of collecting  
~~the animal life~~  
in beach-hoppers, sand ~~off~~  
living in beach debris  
algae ~~and~~  
~~the flatworms~~ ~~at~~ ~~jobs~~  
cast up on beaches by  
~~by left the sand~~  
wave action or left  
stranded by the tide.  
And gulls at beach  
debris, algae, ~~and~~ ~~the~~ like  
he throws into the  
water ~~close by~~ By  
standing close by ~~the~~  
~~at~~ the animals so  
~~easy~~ cast adrift.  
make haste to remove  
them self from the  
spot out of the water  
off <sup>very</sup> conveniently and in  
great numbers.

where <sup>Duke</sup> a <sup>sound in</sup> shallow <sup>close</sup> by  
 Clarke discovered a new way  
 to get terrestrial amphibians  
 beach fleas. <sup>other small dry beach debris</sup>  
<sup>living in beach</sup> and animals harbor  
<sup>by or living in it</sup>  
<sup>False</sup> throw <sup>opposite</sup> <sup>hand</sup> <sup>beach</sup> <sup>couple</sup> <sup>what you</sup>  
 and they'll climb up your pants  
 try to get on safer ground  
 lose a swim in water the  
 first fish would be relishing  
 them "ishmish" tid bit no less  
 for him no less.

On lives and learns <sup>to</sup> on these  
 expeditions. Clarke's coll.

The day that passes  
 if you fail to learn something  
 new

The day you do not learn  
 something new is a day wasted  
 { Clarke's collecting  
 monument behind Ball court.  
 How not to open a coconut.



# The ~~garden spots~~ Winds

~~Highwinds~~ winds ~~actually is a~~ never  
though never ~~see~~ hurricane, tornado  
or typhoon, high winds I have  
experienced in many places

The Pampero in Patagonia

The Willywag of Alaska

The Chinooks off our west  
coast

~~The~~ Chewagenke

~~Though~~ <sup>I have</sup> never actually ~~passed~~ through a

High winds ~~and~~ I have experienced  
in several places ~~the~~ Pamperosis Punth  
Arenas Chile, where you can lean  
~~against them without falling~~ as against  
~~the wall of a house~~ which will hold you  
~~up~~ as well as a brick wall if they  
do not tear the buttons off your ~~coat~~  
The Chinooks of the west coast  
and the Willywag of Alaska which  
~~can~~ ~~do~~ ~~him~~ sudden squalls that  
~~drive~~ ~~these~~ ~~that~~ wreck unhurried in  
unprepared carot. But nowhere  
yet have I experienced the constant

daily strong, and persistent, indeed  
insistent winds that obtain off the  
North and east coasts of Yucatan,

~~Quintana Roo (Yucatan)~~ interspersed  
with <sup>with</sup> <sup>the</sup> <sup>type</sup> <sup>of</sup> <sup>squall</sup> <sup>the</sup> <sup>bravado</sup>

At whatever lull there is occurs  
for a brief spell in early morning  
but but, the wind is up, reaching  
its height in mid afternoon and  
continuing if it does not increase  
in force all through the night. ~~Yes~~  
~~Dragging anchors~~ ~~they~~ will ~~in~~ when  
anchors begin to drag you either  
either shift your anchorage  
or put out to sea as fast  
as you can, or rue the oversight



10

Tried to get it started it refused  
to respond meanwhile the current  
was carrying us ~~and~~ while  
apart ~~at~~ an alarming rate.  
There was nothing left to do  
but get out the oars to try  
for the rapidly receding shore  
by dint of pulling and fell  
meanwhile we were making  
rather discouraging headway  
toward shore but a long way  
north of San Miguel where  
we had started. But luck  
ran with us, we were spotted  
from the shore and soon a motor  
boat appeared to tow us home.

So much for two scares and  
a near one. ~~We were~~ <sup>kept</sup> ~~the~~  
~~however~~ ~~for~~ adventures of quite  
a different sort. ~~and several~~  
~~there came in our hunt for~~  
~~specimens~~ and sure



The most unforgettable feature of the (X)  
Cruise was

Never to be forgotten are the high  
strong winds, and currents ~~off this~~  
~~cast~~ off the coast of Yucatan.

Persistence, and insistent he dominated  
everything, the times and places of collecting  
and indeed arrival and departure times at  
all ports of call. <sup>Dropped or and Schuyler B.G.</sup>  
~~he~~ ~~blew into Progreso~~

~~on the evening of March 24 and~~

(having accompanied the  
collecting outfit so called, 25 chests of bottles  
trunks and gear, preservatives and miscell  
small supplies down from Miami with which the  
Captain departed from Miami on the morning  
of March 19<sup>th</sup>, literally blew in to Progreso  
on the evening late afternoon of the 24<sup>th</sup>.

Progreso is a restless open roadstead  
that gives first time <sup>inexperienced navigators</sup> small respite ~~operations~~  
an uneasy time between <sup>and anxious holding</sup> wind  
weather, and barometer. After some time

The unending breeze and ceaseless motion  
becomes perhaps commonplace until  
you strike, or rather are struck by a  
"bonanza" as they call the rather  
terrific (to us newcomers at least)



such as we were subjected to in the  
harbor of Cozumel on April  
We had aboard <sup>that day</sup> Doni Halkin and  
Gowan ~~at~~ expert game fisherman  
and writer on ~~such~~ subjects, and associated  
with the resort Cubanas Caribe and <sup>its</sup> Boca  
de Paila fishing camp. For lunch and  
were enjoying our selves when all of a sudden  
~~it~~ a violent gale blew in from the west.  
~~Gowan~~ speedily ~~was~~ out board motor  
speed boat began <sup>such</sup> digging and heaving  
~~on its morning time~~ ~~that it threatened~~  
~~to snap~~ that its ~~morning~~ <sup>the</sup> ~~moment~~  
~~moment~~ to snap. <sup>without further warning</sup> ~~much~~ ~~has~~ ~~on~~ the  
unfinished lunch was forgotten ~~in the~~  
~~excitement~~ likewise urgency and excite-  
ment of the moment. Gowan ~~at~~ <sup>hearing</sup>  
our small motion picture camera. The only  
one ~~that~~ <sup>volunt</sup> could have given realization to  
the ~~—~~ a ~~reaction~~ <sup>be</sup> goings on. Such  
snaps as we ~~rather~~ belatedly did get  
~~off~~ <sup>still</sup> given any idea ~~of~~ <sup>of</sup> what he ~~depar~~ <sup>hastily</sup>  
departing guests had to contend with.  
~~They~~ ~~must~~ There is no shelter to be had  
in this harbor as open to these weather



as Progress is to all winds, with <sup>(2)</sup>  
no shelter for vessels other than small  
~~boats~~ nearer than ~~and the~~ ~~Cape~~  
a shallow <sup>have</sup> <sup>accessible</sup> <sup>only to small and shallow draft boats</sup>  
embayment <sup>in the time of stress and storm like the</sup>  
present.

The rather hard limestone  
bottom was poor holding  
ground

The Capt. could not get up anchor  
fast enough, dragging as it was on  
the hard limestone bottom <sup>with its</sup> ~~just~~ shallowly  
overlaid with sand. Before our  
eyes somewhat closer in ~~shore~~ <sup>was</sup> a  
the ~~mouth~~ <sup>on</sup> a ~~smaller~~ <sup>smaller</sup> ~~mark~~  
larger. But the Blue Goose ~~the~~  
had blown ashore, during <sup>the night</sup> ~~an~~ <sup>an</sup>  
earlier ~~bonanza~~ <sup>with a less</sup>  
calm, at night ~~when the crew~~  
was with a less alert crew.

Piled up on the Today she is the play  
ground of <sup>local youngsters</sup> ~~juvenile swimmers~~ who  
swim or boat out from the ~~at~~ near  
by pier and swing out over the  
water from a rope attached to the  
mainmast to plummet in the water  
below each time with shout from  
the swimmer? and the waiters, <sup>waiting</sup> <sup>their</sup>



Though <sup>the</sup> loss of tide occurred at the time (2'  
at the San Miguel ~~break~~ <sup>people</sup> ~~with~~ <sup>perished</sup>  
~~broken~~ ~~with~~ ~~people~~ ~~perished~~  
when the San Miguel ~~was~~ Puerto Morelos  
schooner struck a ~~Is~~ an uncharted  
reef off the outer port. ~~the~~ The Blue  
Goose in her turn had a crash with  
a coral head seen just a fraction  
too late as we were maneuvering  
to an anchorage of the north end  
of Cozumel. The ~~struck~~ glancing  
blow just to left of the bow ~~just~~  
the whole ship, and left a noticeable  
gash, penetrated not more than "skin"  
deep, three feet below water, just  
off the bow port side. The Blue  
goose ~~drifted~~ <sup>made</sup> more than  
9 feet ~~thus prevented her~~  
~~water of limited surface anchoring~~  
~~her to anchorage of~~  
~~so anchoring~~  
— under so that the captain did  
not care to anchor in less than  
14 - 15 feet of water



△

That the Mayas built so well and wonder-  
ously ~~the~~ their great cities and temples has been an  
all time marvel to those <sup>one</sup> who think of the  
accomplishment of so much labor in a decided-  
ly tropic clime. But they reckon without  
those every present winds that often drop  
down to breeze level but seem never to  
be absent the day around. <sup>in the spring drop</sup> <sup>in any of the 24 hrs of each day</sup> <sup>indeed</sup> <sup>rebreath</sup>  
hours, and the evenings are <sup>glorious</sup>, <sup>refreshing</sup>  
and though relaxing, <sup>stimulating</sup> <sup>activating</sup>. High winds  
or low <sup>seem to urge you</sup> <sup>you want</sup> to be on the move and it  
is the winds' insistence that the Mayas <sup>marshalled</sup> <sup>to work</sup>  
must have heeded to get on with the work.

And the <sup>visible</sup> results of that working are  
truly ~~more~~ impressive, and thought <sup>profound and</sup> <sup>surrounding</sup>  
that I ever saw <sup>first hand</sup>.

The first Maya city, or at least if you  
will, was Tulum, high upon the cliffs  
below <sup>Rising up above the horizon</sup> <sup>where we put ashore</sup>  
Cancun, <sup>rising against the sky line</sup>  
as <sup>plainly</sup> <sup>as the Lincoln Memorial at home</sup> <sup>rectangular</sup> <sup>squarish</sup> structure  
as architecturally impressive as the Lincoln  
Memorial at home in its <sup>monumental</sup> <sup>simplicity</sup>. To  
see it from the  
Rising high above the horizon the main temple with its  
apparent pristine white alerts the <sup>sea borne</sup> <sup>passer by</sup> <sup>at sea</sup> to its architectural







Small wonder the Mayas ~~for~~ produced  
the ~~one~~ best calendar known to ~~men~~<sup>us</sup>  
and without the instruments and  
~~calculators~~ optical and mathematical that  
assisted modern man in the formulation  
and various ~~revisions~~ <sup>(still)</sup> of the lesser  
calendar he ~~uses~~ <sup>uses</sup> today.

To see ~~the~~ Maya temples <sup>of Quintan Roo</sup> and we were  
able to ~~visit~~ <sup>see</sup> them. Thanks to Mr. Bredin <sup>who</sup> personally  
accompanied us ~~on his way to the school~~ <sup>to the school</sup> and his generosity supported ~~expedition~~  
by ~~him~~ <sup>him</sup> ~~to my friend~~ <sup>my friend</sup> not only Tulum, but Chichen Itza and  
Uxmal as well. Each has its outstanding  
features not one but many. At Chichen  
Itza ~~the~~ <sup>is outstanding</sup> Ball court seems the  
most wonderful of the lot. ~~Seet~~  
wide by ~~long~~ with lateral walls  
with ~~Seet~~ <sup>an</sup> high. It is perhaps  
the acoustic marvel of all ages, but  
none even <sup>not to be surpassed by</sup> the many pillared temple  
at Karnak which we visited <sup>returning</sup> ~~in the~~  
~~course of~~ <sup>from</sup> ~~the~~ Bredin Belgian Congo Expo  
in 1955. Stand on one side of  
this ball court smartly clap your  
hands and the echo is repeated and  
passed back and forth 18 times in  
~~every~~ <sup>descend</sup> gently ~~but~~ <sup>mark</sup> descending scale



How was it possible for the Mayas to<sup>4</sup>  
build so <sup>uniquely & also</sup> well and wonderfully? It is said  
this acoustic wonder is result of  
from the nature of the limestone used <sup>in these calendar buildings</sup> its  
walls could be, but even so they certainly  
knew what they were about when they build  
as they did. ~~For note~~ But these  
repeated echoes are ~~small~~ <sup>one of</sup> a minor  
<sup>acoustical</sup> accomplishment compared with the  
the unbelievable strong and clear trans-  
mission of vocal sound from one end  
of the ~~first~~ long ball court to the  
other. ~~Do not~~ <sup>Not to be</sup> overlook <sup>that is</sup> the fact that  
this great court is open to the sky, and  
an even feet wide. Yet <sup>as</sup> ~~an~~  
P. Rehder stood in the partially <sup>fallen</sup>  
ruined, colonaded "temple" at the ~~South~~ <sup>dark</sup> end  
we could hear him as plainly in the smaller  
yet similar higher placed structure at  
the other end. His voice came through  
as clear as a bell ~~and~~ <sup>as</sup> if he were  
talking <sup>discouragingly</sup> ~~loudly~~ <sup>by your side</sup> in your ear at close range.  
Where is <sup>its</sup> ~~the~~ acoustic <sup>effect</sup> equal ~~to~~ <sup>to</sup> be found? ~~In~~ the Mormon Tabernacle in  
Salt Lake City, with its pin drop <sup>is</sup> ~~is~~  
indeed remarkable, but its <sup>is paid to</sup> ~~root~~ <sup>trans-</sup>



5

mits the sound from one end to the other,  
The Maya ball court however is per-  
to the sky. With in it at times when  
the games, which ended so tragically  
with the execution of the captain of  
the losing ~~team~~, the populace or  
its leaders and officials at least  
~~one~~ must have assembled to  
hear royal pronouncements and dicta  
to observe religious, and national  
events, and perhaps also lectures from  
their learned men whether of the priest  
hood or not is small matter. And these  
great Maya civilizations there were  
successive "waves" of them are ~~as~~  
probably as old as those of ancient  
Egypt, though as far as recoverable  
evidence goes the Mayas ~~fall short~~  
~~although~~ going back at least to  
~~2000~~ to 3,000 years before Christ, fall  
short of the Egyptian by perhaps  
2,000 years. My personal belief is  
that they are ~~historically~~ historically ~~pro~~ less old.



The subject matter of his great disposition English as it may find it was just one of the highlights of that expedition the current Bredin

It has been a good fortune on these Bredin Exped. to invariably encounter some natural phenomenon seldom seen, and in some instances unrecorded

in a few cases unrecorded so far as we are aware have so far been able to ascertain. rarely beheld, and

In 1956 it was the windrows of pink Frankliniids larvae on the beach at Pigeon Island, we were then told they had never been seen before and in 59 since that time & it was at that time that it excited wonderment of the French Fishery officials of whom M. Moritz is the director, who several times up on the phenomenon, several days later.

56 Amphipods rep. 2 new species in caves at Barbuda

58 Jack John shells?

59 Darsie Cowan while

This year at anchor in Ascension bay we witnessed a jelly fish swarm, literally thousands drifting by the ship either side as though a giant shaker had rained down pepper corns — inch in dia everywhere

Myriapods

Fish palms but



If ever sickness is the goddess of  
human nature, she is a free handed generous  
to another was <sup>we felt</sup> mis placed, it was in your

over the surface of the sea. This thinble  
like species, no tentacles measures a about  
in dia by height is dark brown with yellow  
ova, not noticeable till you get them in an aged <sup>a brightly listed</sup> ~~state~~

Over the ship's side he got a drab opaque look  
his marbles almost ~~floating~~ <sup>drifting</sup> along with the  
surface current from over the reef  
where no doubt they were being spawned  
to the far <sup>side</sup> shore of the bay along the  
light house <sup>beach</sup> shore where Mr. Agnew had  
picked up a number ~~from these in the water~~  
during the ~~the~~ <sup>shore</sup> ~~the~~ <sup>actually</sup> ~~the~~ <sup>depth</sup> ~~the~~ <sup>by the</sup> ~~the~~ <sup>ground</sup>  
specimens ~~the~~ <sup>depth</sup> ~~the~~ <sup>by the</sup> ~~the~~ <sup>ground</sup>

alongside the ship the next day. This  
run continued for the next two days  
as well though not in the great numbers  
of the <sup>first</sup> day before. Linche was not the  
only species passing by that day.  
Among the thousands we occasional for  
long tentacles of <sup>pastel shades of red</sup> ~~avender~~ and purple edged  
yellow fish for more beautiful and  
ever so scarce.

Just three were seen and taken  
Due to the ship - Small things they



The long <sup>barrier</sup> fringing ~~roof~~ protected the  
sea wind side of the Bay <sup>proved a</sup> ~~was a~~  
rich and unweakened collecting ground  
~~One~~ could work its inner slope &  
doubt no more than twenty feet out  
dand on coral heads at growth,  
scarcely covered with water at low  
tide. Graded up coral masses and  
marine growths of all kinds when  
carefully picked over and dissection  
yield hundreds of marine organisms of  
all kinds, sizes, and colors. Aids in  
holes & the interstices, and holes in the "rock"  
little gobies, annelid worms, anemones,  
mollusks, and innumerable amphipods.  
There were numbers one might term  
frightening in contemplation of the  
work involved in sorting them out  
growth - family, genera, and lastly  
species, and they get the identified  
and described where not known, and  
~~undoubtedly~~ many have  
never before seen the light of day in a  
scientific publication.

Before we came <sup>settling down for</sup> ~~to~~ Ascension Bay we <sup>had</sup> ~~had~~ <sup>made</sup> a very ~~can~~ we had  
of Esqirch Sant Bay, almost  
Ascension. Things we had planned  
first to explore by were free for  
and short on <sup>our</sup> ~~our~~ <sup>interest</sup> because the  
captain rather belatedly discovered  
he did not have more than 2 days worth  
of fuel for the outboards - and we  
had planned to depend on at least  
two full weeks to these enticing but  
out of the way Bays. It was  
in one or the other of these that  
Mr. Rieber expected to ~~settle down~~ <sup>to do</sup> ~~to do~~ <sup>see what</sup>  
to make an ~~extensive~~ <sup>survey</sup> of ~~the~~ <sup>could</sup> ~~learn of~~  
mangrove swamp ecology.

<sup>of</sup> ~~the~~ <sup>whole</sup> Our brief look at S. Bay  
did not encourage our return ~~there~~ <sup>to</sup> ~~the~~ <sup>the</sup>  
~~land~~ <sup>stand</sup> of mangroves along  
the northern shore of the western part  
of Ascension Bay seemed to Rieber  
just what he was seeking. So  
after picking up the needed gas we





In Under this cover we have brought  
 together ~~the narrative accounts~~ of the  
~~for remains~~ four yet unpublished Mayan  
 accounts of the Smith Smith Bredin,  
~~Smith~~ Expl. Expedition, of exploration  
~~is~~ - from the Belgian Congo <sup>biological</sup>  
 ranging through the vast mid Atlantic  
 the Soc. Caribbean area to the French Soc.  
 Ids in the far reaches of the South  
 Pacific. Occupation with ~~up to~~  
 much details of organization, & winding up  
 in part of the Soc. ~~expedition~~  
 so generously supported by Mr. and Mrs. Bredin, has  
 left little time to complete these have  
 largely originally recorded in diary form  
 in daily operations - but now ~~as~~  
 Mr. Bredin has ~~discontinued~~ <sup>recently</sup> shifted his interest  
 from adding to our stores of knowledge  
 of the kinds of animals in the several  
~~regions~~ areas. But he made it possible  
 for us to visit, to a study of  
 the food chains and cycles operating  
 in the sea. ~~is~~ A ~~angled~~ <sup>angled</sup> of  
 these expeditionary accounts in very good  
 in order



<sup>only</sup> The two hitherto published narratives  
are those pertaining to the 1956 and  
1958 Caribbean expeditions (S. E. M.  
Pestov & Sw 19 - (pp. —, —) and  
19 - (pp. —, —))

Each of the 6 Bredin expeditions  
was undertaken for the purpose  
of — enhancing —

and each according to its kind,  
scope, and opportunities afforded  
brought to the National Academy  
much <sup>scientifically valuable</sup> material of various kind  
much of it unrepresented <sup>in the Nat. Coll.</sup> as to  
species, and places visited, —

[Innumerable] groups animals —  
plants a number of

Though ~~many~~ reports on the  
<sup>several</sup> collections made, are in progress,  
~~many~~ more are in preparation, and  
to day already so far as date some  
— have been published:  
List, reference to.

Each expedition was largely a unit  
unto itself and for that reason  
beyond this brief introduction, those  
already published, and those presented  
here will ~~not~~ be ~~substantially~~ appear  
more or less <sup>as</sup> independently ~~and~~  
~~not particularly concerned~~ accounts.

not otherwise  
related



See last, 3d page for Miami departure

# Sm. Insular Bredin Exped. 1960

Mar. 20 <sup>Sun</sup> 8:35 a.m. L<sup>a</sup> berth Miami River

24 <sup>Thurs</sup> 4:00 p.m. Anchor W. of pier, Progreso

26 <sup>Sat</sup> 8:45 p.m. Lv. Progreso for Mujeres

28 <sup>Mon</sup> 9:10 p.m. At Anchor, Isla Mujeres, Quintana Roo

29 <sup>Tue</sup> 10:30 a.m. shift anchorage // Logger head sponge picture Mar. 31. (Thurs)

Apr. 1 <sup>Fri</sup> 7:15 a.m. Lv. Isla Mujeres (? 7:45 a.m.)

6:30 p.m. At pier San Miguel, Cozumel

2 <sup>Sat</sup> 1:30 p.m. Lv. docks and anch N.W. of it

2:30 p.m. Lv. San Miguel in strong blow

8:00 a.m. Anchor at 1st anch. Espiritu Santo Bay

10:30 a.m. Change anchorage to better hold

6 <sup>wed</sup> 5:30 p.m. Lv. E.S. Bay for Bahia Ascension

7 <sup>Thurs</sup> 12:30 a.m. Anchor at B.A.

3:20 p.m. Lv. for Cozumel

8<sup>th</sup> <sup>Fri</sup> 12:10 a.m. Anchor at S. Miguel

1:15 p.m. Lv. for N. end Id.

3:45 p.m. Anchor on Cozumel Banks off N.W.

9 <sup>Sat</sup> 2:00 p.m. Lv. anchorage

4:30 p.m. Anchor off pier San Miguel

10 <sup>Sun</sup> 1:15 a.m. Lv. San Miguel

Apr. 11:10 a.m. Anchor in B. Ascension

evening → moved to better anchorage in

slightly deeper water

dragged anchor in wind so

12 <sup>Tue</sup> 9:30 p.m. (moved to new anch. to eastward)

19<sup>th</sup> <sup>Tue</sup> 2:00 a.m. Lv. for Cancun

Apr. 14 Thurs. Big jelly fish day. (Did not have awning rigged till 16<sup>th</sup> = 3 weeks after cruise started)

Progreso

By leaving late Capt killed a day

Antonio (Tany) Halik Mun

On 3d mid day dinner. at Cozumel, Caribbean

Lost trap not found on Mar. 13

Benanza

Tue

Used elect lite on when

Manza

See 3d sheet attached

dark 2nd collect

11 13

4

Easter Sunday?

Apr. 17<sup>th</sup> Sunday; coll. beach N. end of Bay <sup>Ascension</sup>  
also here how not to open a coconut.

Apr. 18<sup>th</sup> Monday to far shore of bay; got  
Squillas and retrieved Rehders pants left  
hanging on tree day before

Native brought us bread and Papayas  
ordered an  
very good bread, white & nice crust. <sup>Papayas</sup> was green

Apr. 19 Tuesday { Air  $27^{\circ} \text{C} = 80^{\circ} \text{F}$  at  
North end on 17<sup>th</sup> Sunday

Ascension Bay Apr. 7, 12:30 a.m. to  
3.20 p.m.

do. 10 days Apr. 10 (arr. 11:10 a.m. to Apr. 19<sup>th</sup>)

Ten days ① Apr. 10 ② 11<sup>th</sup> ③ 12<sup>th</sup> ④ 13<sup>th</sup> ⑤ 14<sup>th</sup> ⑥ 15<sup>th</sup> ⑦ 16<sup>th</sup> ⑧ 17<sup>th</sup> ⑨ 18<sup>th</sup> ⑩ 19<sup>th</sup>  
Sunday Mon Tue Wed Thurs Fri Sat Sun Mon Tue.

See 16<sup>th</sup>  
see notes



Apr. 20 <sup>wed</sup> 10:00 a.m. Move to off Puncab (to Pulum) (by jeep)

3:45 p.m. Lv. Puncab

9:50 p.m. Anchor off pier San Miguel, Cozumel

Thurs

Rish bought for Daiber

11:30 a.m. Lv. docks at San Miguel; to market before leaving -

3:00 p.m. Anchor. S. end Cozumel

2:10 p.m. Lv. for S.M.

4:45 p.m. Anchor off pier (Really left 1 p.m.?)

11:55 a.m. Lv. on plane for Merida

1:05 p.m. Land airport "Merida"

12:03 p.m. Lv. "Merida" for Cozumel

3:30 p.m. Ar. Cozumel

3:30 p.m. Lv. Cozumel for Caymans.

5:45 p.m. Anchor at Georgetown

5 showed movies in Caymans Grand Cayman

6:45 a.m. Lv. airport Grand Cayman

9:05 a.m. Arr. airport Miami

Lv. Miami

Ar. Wash.

Sat. 30 3:30 p.m. ① = 24

Sun 1 3:30 p.m. ② = 24

Mon 2 3:30 p.m. ③ = 24

Tue 3 3:30 p.m. ④ = 24

2.00 12.00

5.30 4

May ~~5~~ Movie in Cozumel 70-80 people  
5-15 in Cayman movie 50-60

Apr. 23  
34 bats also  
bought strates  
Morelos wreck on 23d

22

23d

24

25

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31



Mar. 15 Left home, Seaboard, 2:15 p.m.

16 Arr. Miami 11:00 a.m. Located and moved aboard "Blue Goose". Frozen dinners bought 4.

17 On board to 11:45 p.m. called Vet. hospital re alcohol, and trucking co.; ↗

rained all day!

18 { Got alcohol; Called Bredin } row re getting alcohol aboard

Bruce came aboard in a.m. Rehder came at noon after Bruce & I had gone to lunch. That night tanks arr. and we stowed alcohol. R. & I had dinner

19 Rehder & I had lunch and dinner with G.I. Yoss who took us around for buying things

20 Left Miami at 8:30 - 8:35. Under way 21, 22, 23, 24

24 Arr. Progreso at 4:00 p.m., but no one from shore came out to "clear" us

25 Dying out quarantine flag today (should have been done yesterday aft.)

<sup>(we)</sup> Flew to Merida on 24/4/41. We were warned about Puerto Morelos, bad corals, poor charts, and sure enough Day before we flew to Merida with Father Nagel island boat sank with loss of several lives (this would have been Apr. 23)



S.I. Bredin 1966

April. 11/60 Clarke picked up jelly  
fish he found on beach at Allen  
Point in great numbers (Sta. 57-60)  
[all along shore]

3/12  
3/13  
14

April. 14/60 Thousands of jelly fish drifting  
by in fore noon. <sup>medusae</sup> purple.  
with dip nets over side Sta 71-60

April 15 Clarke got more he thought  
were smaller on Allen Point Beach.  
at 2:10 p.m. This afternoon.  
[Yesterday afternoon?]

Apr. 15 Regular size pteropod and  
this day <sup>a.m.</sup> [Have been drifting by  
last 3 days]

Apr. 16 None were seen, though looked  
for.

Sta. 57-60 April 11/  
Clarke /60  
Early evening

Jelly fish picked up just  
off beach N. side Allen  
Point Lt. were in number  
all along shore, some cast on  
beach, Ascension Bay, Q.R.

*Linuche*  
*unguiculata*  
Escholtz  
1829

*Pelagia cyanella*  
Peron and Lesueur,  
1809

*Anemones:*  
*Condylactis*  
*gigantea*  
(Weinland)  
1860

*Aptasia pagatea*  
Cochering and  
Mich  
1866

Yucatan

Quintana Roo = Federal Territory

Pop 26,969 (=27,000)

3 hr. 20 mins from New Orleans.

4 1/2 from Miami.

2 hr. 40 mins from Havana.

Separated from state of Yucatan in 1902. Some tribes are virtually independent.

Progresso to Merida 30 miles by auto

Merida 160,000; 15,000 windmills.

Hotel Merida & Colón 3 single 5 double. Europe

Little Toledo 1.50 no meals.

Casa Rodriguez 2.50 double

Casa Cámara on Paseo Montejo 495 \$10

Casa Ombra 10 blocks away \$3.

\$17 double

Chichén Itzá & Casa Victoria. 2.50 single  
(grand daughter of Edward Thompson)

Eat in Merida at the Fuente de Soda

Chichen Itza 75 miles from Merida

"No-see-ems" at C. Itza  
2 1/2 sq. miles of ruins < Holy City >

Uxmal 50 miles from Merida.

Pay for whole taxi to C. Itza Rd. trip. 17.50

Progress 30 miles Merida to Uxmal 8.25

Kabab includes " 12.00

Prime includes 2 hrs day and is per. <sup>can</sup>

Bus goes to Chichén Itza

American Consul at Merida = N.L. Parks  
City



Cayman notes

150  
500  
415  
5  
3.3

## Navigation among coral reefs

Successful navigation through and among coral reefs is often dependent to a large extent on the eye and the ability to see reefs or other submerged dangers. Reefs are ~~to~~ more easily seen from the masthead than from the deck or bridge. They are easier to see when the sun is high and behind the observer than when sun is low or the observer is looking into it. Reefs are extremely difficult to distinguish when the sea is calm and glassy @...

Reefs with about 3 feet of water over them appear light brownish in color, deepening to a darker green as the water increases in depth, and finally to a deep blue as depth becomes substantial.



Caymans.  $\frac{100 \text{ sq. miles}}{3\frac{1}{2} \text{ hrs by air to Miami}}$

Grand Cayman (5,100) 17x7 miles

Little Cayman (100) 9x1

Cayman Brac. (1,500) 10x1

G.C. rock bound coast surrounded by reefs

Turtle fishing, rope from Dutch palm. (Sisal)  
Postage stamp

Ernie Ebanes met plane + boat.

Andrew Morris Gerard, Commissioner —

Passenger + freight service bet. Georgetown  
+ Kingston

Cave at Bodden Town, which extends for  
some hundreds of yards under the sea.  
and a remarkable natural cistern 40 to  
42 feet deep, at East End, 70x50 ft  
in middle of cliff of solid Flint rock.

Also a curious cave on the north side of the  
island about 1½ miles inland from Old Man's  
Bay; contains wide subterranean passages.

The Morant and Pedro Cays  
Swan Ids




March 28 - 1960

Underway and bowling ~~at~~ seemingly at great rate but actually around 5 knots at that — 5 nautical miles an hour that is. We did not leave Progreso till after 9 p.m. on 27<sup>th</sup> though I urged Capt to do so in order to get to Mujeres see the Admiral the same day and be ready for work next a.m. With late start and slow running we ~~won't~~ see admiral till 29<sup>th</sup> and may be not get to work before 30<sup>th</sup> Oh! me Oh! my.

Still it's a beautiful day, bright sunny, easy sea and invigorating breeze, except for fact it is not enough for sailing and moreover from the South into which we are heading, it is sailing if you can call it that at its best. Those who are trying for a sunburn or can take it have been basking most of the morning in deck chairs with only shorts on. Harald between shifts at the wheel began fishing Sargassum. I thought it sort of old stuff — but it turned out to be a worthy station couple of little <sup>grey</sup> porbeagles, a fish, couple of mullusks (one an egg case) and — is it my first time — sargassum weed with



With attachments one to valve of bivalve, other with  
red nulligore <sup>encrusted</sup> "base" just like many an alcyonarian. All  
this fairly small but many branched pieces or  
plants alive with usual growths, but crabs, at  
least one quite greyish is certainly not "sayi" to  
look at it  is it from same locality as attached  
weed either weed represented 2 species or pcs  
of different ages. I believe there were also some  
strands of a green filamentous or at least thin  
stemmed also among or on strands of Sargassum.

All said and done Harald did us a favor  
by wanting to look at those few and far be-  
tween small clumps of Sargassum. Breakfast  
like as usual. Had  $\frac{1}{2}$  grapefruit, corn flakes & dry  
milk mixed up. 2 Fried, and whole wheat toast but  
tasted like straw. However was good and  
ample. I notice that Mujeres is spelled

Mugeres on chart. Gave my bottle rack second  
coat of paint this am. and ~~put~~ <sup>sit</sup> out 1st  
row of bottles. Now hats on deck house and  
ready for work. Harald fixed couple of boxes of  
plastic vials with lids, 2 sizes vials. ~~Can~~ <sup>This mexi-</sup>  
can paint I bought ashore appears to be great  
stuff ~~is~~ thick but spreads well, and in the  
breeze across the deck and perhaps with sun's  
help dries fast. Would like to see the formula.  
We are way behind what Captain



promised us. We were to be in Mujeres Abn<sup>③</sup>  
by or before lunch and we won't be in and anchored  
before 8<sup>p.m.</sup> maybe. He is too optimistic about  
what he can do, but now is fooling no-  
body but himself. Is afraid of getting near  
shore anywhere. // Still it's been an enjoyable  
day otherwise; Sunset nothing out of ordinary  
made me think of Portogus with wide sea rolls  
rising and falling before it — the ceaseless  
waves running off to where — who knows. It's  
always the fascination of the sea.

Dajber is a big 6ft 2" man, and cannot  
wait he long drawn out meal times. While at  
6:30 had (poor devil) to make him self a sand-  
wich. Last night I slept till dinner, till I  
was waked for

He got into Mujeres Abn re  
Cute, <sup>9:10 p.m.</sup> ~~head~~ 8 p.m. dinner, before had  
rum + ~~Scotch~~ Scotch frage 7<sup>30</sup> a.m. while  
waiting + cheese + sandwiches (thead)  
About 11:45 I got out dinner +  
our E.L. to hanging from. worked  
grand in the 1 hour current sailing  
by, but got most of our current sailing  
+ few other things. Back (Randa)



Before, Alf in his meaningful, beguiling tone asked what voltage my supply was. I didn't know but all bulbs in the signposts = 100 volts. That was keeping the generator running. Is it hard on generator, no he said it just burns gas. I offered to try gas, it'll be countered well by some of my bulbs of less wattage. I said I'd try but felt stronger light would serve us better.

---

He's only got ~~extra~~ ~~and~~ but he contracted for six people, & he gave him 250 forward radio.

---

(5)

March 29, 1960

This a.m. about 7 <sup>small sail</sup> boat with 3 natives came by to offer assistance(?) so I sent Rehder down to make Capt who gave them a rather curt reception. I left it to him.

Anyway it got us started and it was the first time in all my days aboard that we had any breakfast before 8 (usually after 10.)

Then he gave me ~~one~~ of his hand to get organized ship. I told him I was glad he brought up matter of eating hours, that I wanted breakfast be here 8 every day, lunch could be better style (he said at 12) and dinner at 5<sup>30</sup> but as today first try it was about quarter past 6 before we sat down. Clarke who puts his <sup>light</sup> traps ashore at night. Need the earlier dinner to get ashore before dark. During break wanted to organize shore parties and I had to tell him we would work that out as you never can plan more than a day at a time so much things as each man wants this and that.

Stowed specimens wrote labels, pickled specimens

Rehder must have gotten <sup>several</sup> hundred of whitish gastropods from rocks above dry beach, [just to build up number of specimens taken] said ~~could serve as~~ as dunks. Except for that I collected a number of large, as well as different species.



Then I put over E.L. 9:40 to 9:50; <sup>mean</sup> <sup>⑥</sup>  
another label, then fixed skin. Then got  
checked in Merida Hotel; started on  
notes; then Dieter asked reimbursement  
for \$28.35 misc expenses - Right on  
lots of busy day & afternoon.

Collected for about 2 hrs had period  
with Andy & Bousefield. Rehder came  
up later with his one bucket.





April 2 This a.m. got about 11 a.m.  
met Capt. Ashore & he said to me that  
he had just one from the Capt. of the  
Port who had warned him against  
going to N. end of Cagayan because  
it would not be safe that a cold  
northern front was moving in &  
would make it dangerous for us to  
go. Naturally I said you are  
responsible for the safety of vessel  
& crew & I shall abide by your  
judgement in the matter & that  
I would accept the 24 hour delay  
that Capt. said Capt. of Port  
just about insisted on didn't  
want us to go but would let us  
if we insisted even though it  
was against his better judge-  
ment / my question is how the  
lotd the govt. & our agent  
Andy & Paul have to spend

of April 2nd ashore. If I really  
was going to be as bad as Capt  
said Capt of Port said it was  
going to be why did the boat feel  
safe in going ashore, or the Capt  
in letting them. // Maybe he was  
suspicious but it looks like  
I had up for just to give  
them this night here.

X Could be, and could be that I'm wrong



~~Apr. 8~~

At N. end Channel  
have upst Ed's raft  
and he got some fine "rocks" &  
containing specimens. He could  
see fish swarm in as stuff  
dropped in water. Was off rocky  
windward side N. Point. I must  
have been right. That is the type  
of place where animals like best  
to live.

The finest best animals  
& perhaps the most live in tough-  
est places. Where life is hard  
vigorous, & calls for struggle  
to contend with nature. These are  
the world's most vigorous ~~pictures~~  
(and animals)

April 9. with reference to this  
there along storm (?) and somewhat  
strong breeze that accompanied  
to heavy rain. Capt. said to

me. I got this one figured out  
that old Port Capt. was telling me  
fine weather the next <sup>hour</sup>  
three days. E. & N.E. winds, not strong.  
and here we get this with winds  
shifting around to N. & W. Well!

And before we went to Espir. do Santo  
Shi. he was all for Port Capt's weather  
pronouncements. ~~he~~ I wanted to move  
to N. end, but Capt. didn't know afraid  
I'm sure. Any way he said Port Capt  
advised against going would be  
dangerous to Capt. would not stop us  
but was almost <sup>insistent</sup> that  
we do not go. maybe he & our Capt  
one rather or both were telling truth.  
he did get that from  
went that made no get  
what about how far  
for 1250 ft of Capt  
Santo  
(see p.)



Apr. 9<sup>th</sup> Little a.m. on 10<sup>th</sup>

Cornel is a place we won't soon forget. Last time in it was the bonanza (squal). This time the first real tropical rain we experienced. and did it pour & did they (the rest of the party) get caught?

We all went ashore at about <sup>4:30</sup> after getting bids from the north end of island. I went for mail got to P.O. about quarter to 5 (closing time) read mail and walked to hotel to buy a drink as return for the getting of mail which they promised if we did not get in before Sunday. Well we sat around with our tall drinks by side of pool, and asked about ship's laundry it was promised in half an hour (would be 6:30) and Rehder & I walked back to pier (boat landing) to tell Capt. When we met McCauley the hotel manager who said it would be nearer 7. we told Capt. & he went back to ship & I went tops. There was nothing above to tempt one to stay there and I left my camera on the ship & so could not take the peculiar light cast by sun and clouds. Dark lowering black rain clouds & jagged lightning over the main land. Sea had an odd color dark sky and only dark green-blue (blue-green) water. It would have made a striking picture just before I might have gotten silhouette of ship against back of sun. But



Apr. 9 April 19<sup>45</sup>

after hours of a camera you miss for  
for to be regretted opportunities for out of  
this world pictures. Also as we stepped  
around the odd light on buildings for the  
evening sun made interesting &  
contrasting lighting on buildings.

Well to cut a long story short; Rehder  
has caught between the devil (me + desire  
to go back aboard with Capt) and the deep  
sea, the temptation to remain ~~clear~~ other  
on the hotel front porch where Claude was  
laughing and joking with "Mexican (Hotel)  
girl (desk clerk) or manager's assistant  
& one other also employed at hotel, he  
was at time. I kept looking at storm-  
clouds moving in from the north. Back  
& looking at the occasional lightening  
bolts (streaks?). To tell truth I wanted  
to see the Barometer. That Capt ~~was~~ always  
hanging over. (It has about 30 + not  
changing things a. O'point a bit below set  
marker) ~~The~~ Well Rehder went  
back to remain there & I went to  
shit. ~~Looking~~ hoping to get some  
notes (like these written up).



That blast of April  
was as exciting as anything I've  
seen but not ~~for~~ dangerous at all;  
more threatening than otherwise  
and example of wreck in harbor  
that happened in very similar circum-  
stances, while crew was drunk & below  
decks - off. As Grover said  
anchored about where we were,  
holding ground is not good  
sand is fairly thin layer over  
limestone stratum.

more threat &  
faster

~~Apr. 9~~ On board was hot as the Rings of Hell below. so I poured a rum + went up to sit in deck chair in cool of evening. The clouds as it we had brought on an early night fall, then a light rain began to fall, + so I hurried down below to Rain bar (refrigerator motor makes is hot down there, more than ever. Always thought it was engine running in after cabin that made down below decks so ~~hot~~ warm). And then the heavens opened up. Capt rushed around closing "sky lights" and hatches and ports opening in low deck house or deck level. The tattoo beat a noisy by rain was as loud as incessant, like drum-fire, that it sounded like main engine, or generator going full tilt. Some rain and there were three guys still ashore. Rain fell in shafts ~~out~~ across wide hotel porch, into lobby. Well the hotel station wagon took them to pier where they yelled to Capt on ship + he yelled back that they'd have to wait - that he would come in for them when rain let up. After more shouting back and forth with Capt repeating what he had already said, but louder, and no more but



The story

as it started to rain  
Jack & Frank went down to  
landing and ~~bailed ship~~ as it  
started to pour the bailed  
ship and Alf yelled back  
would one in after rain it  
clothes. Jack yelled back it  
im going to stop & Alf  
yelled back same as before  
and louder & more emphatic

The crowd behind <sup>concrete</sup> but to  
little around as rain about drove in  
at rt. angles. Then the wagon  
with rest came to hole with Country  
& both busch back to hole & later  
as rain slashed came back again  
but still Alf delayed although it  
was fully dressed in oil pants & shoes  
& a vest. Jimmy was wet & Alf  
a mist was left in legs  
didn't want to leave  
ship & that  
any

Lines, they have back to Hotel. I  
did not know of Hotel left and had  
visions of them swimming through the  
literally sheets of water <sup>back</sup> at Hotel for  
Capt. Refused to go in further.

Capt put on all skins, gathered  
up all water proofs & kept putting off  
going in meanwhile Hotel with rain.  
Plucking up, Hotel sta. wagon brought  
them all down to dock again. ~~Then~~  
~~Time with Laundry~~ <sup>wagon</sup> Came twice  
Cozum-hell with laundry first  
time picked up Jack &  
Frank & left Hal but  
took Laundry back

next page

Hal came down in auto & avoided laundry  
crushed behind seats

---

Should get Hal who was left where which he  
left & then Hal couldn't get motor  
started & these two were yelling, also  
being getting out to check but finally Hal  
got it started and got them. Took  
all a rain coats & tarpaulin by  
him off sugar cane



Rain drove back into Hotel  
lobby + though doors were closed  
or gotten closed after first wetting  
people kept running in for  
shelter + let me let more  
during rain. Our gang  
had visions of spending night  
at hotel (maybe wishful thinking)  
when they thought dinner might  
pull out and away. The last  
time

1:15 a.m.

Apr. 10 Monday

Left at midnight and got  
to Ascension Bay at anchor at  
about 11:10 a.m. We all stayed till  
after late lunch left ship at  
2:30 p.m. + stay till 4:00 + stayed  
home in launch not gas anchored  
while filling + going to spark plug  
broke, mended that. I used to  
fine/get some nice maverick hats  
from work, and around beach  
during stop during which we got

several nice crabs. Apr. 11  
Hudson heads at snail <sup>thrust</sup>  
snapping sounds in <sup>snaps</sup> asked  
if <sup>snapping</sup> crabs made sound

April 12, when Andy came to  
pick me up. (He'd gone round to see  
Dyer's location, it seemed). He put boat  
into shore and let me load all my most  
serious gear, with out so much as an of-  
fer or even a gesture of help. Part of  
general resentment, engendered by my re-  
fusal to take single woman as cook. My  
way was an A of a way to treat an old man  
& and also man who engaged ship for cruise.  
Got most of my stuff put away except 2-3  
bottles for sorting, but worked all afternoon &  
most of evening at it; and again next  
morning 13<sup>th</sup>



1960

April 13 Wednesday. Up at 5.00 sorted spms from 2 debris lots. Did not get away till boat was ready. Raiber dropped me at last sand beach before mangrove, where I'd collected yesterday, April 12, Sta. 60-60. I went to set up photo → flash (Dine) and practically ruined first film, because flash would not fire. The fit in of extension wire does not hold well. Should write Dine, also re poor soldering paid \$7.50 for it.

Anyway collected several stalks, red ascidians, sponges, a Gracillaria, and got a bunch of crabs and one blenny which I introduced in aquarium. Blenny settled on sponges at once but moved when I set up camera, 1st flash without him. Later I sort of chased him ~~back~~ <sup>back</sup> on location. The crabs did not show for anything in any set ups. Besides flash did not work ~~for half~~ <sup>for half</sup> a dozen. Was ready to throw camera away after breakfast which is very late as usual, the boat (Andy's) had to be readied it was 10 am before we got started 10:30 before I was deposited on beach.

---

9/ We cannot get crew up to early breakfast, & have boats ready by 9 am.

There was some excuse for it this night of 13<sup>th</sup> - Capt decided to move anchorage as he felt ship was dragging anchor or about to.

Crew + I were up till near midnite,  
my part staving boats off side as anchors  
were put over. ship went back faster than  
boats and until they were straightened out  
we had ~~all~~ of a time.

Noticed fairly young dead mangrove  
among supposedly new stand.

Are they suffering from an epidemic  
disease?

Growths on roots were not  
on all. <sup>orange</sup> yellow ascidians only  
3 times, in limited looking.

blue + black sponges most common  
and gracillaria balls "do".

Got two diff. *Alennies*, perhaps 3 or 4  
species in the 4 specimens. I sorted  
from 60 = 60; these two from sponge  
clumps. (Daiber color photo'd these two)



April 19, 1960

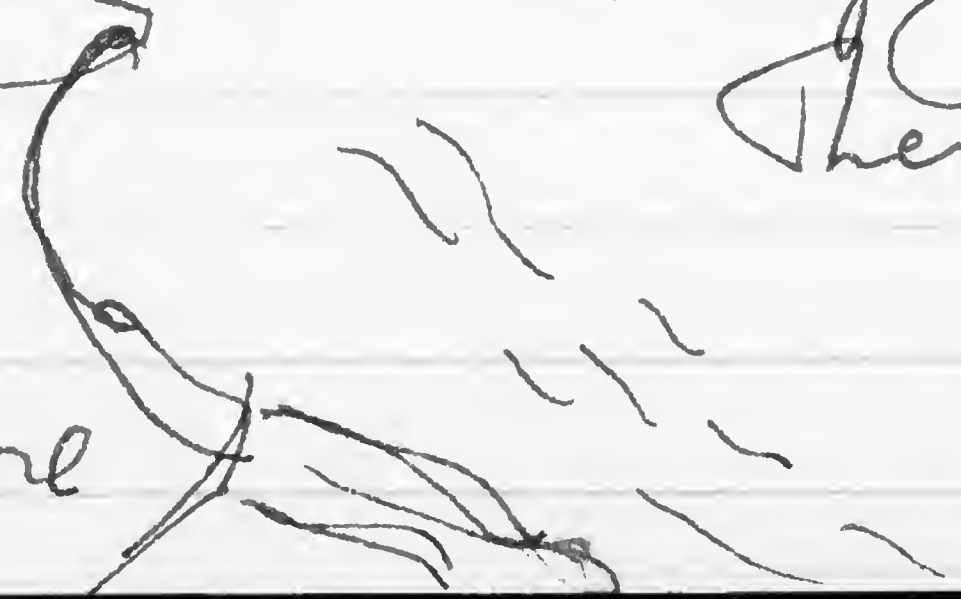
Tuesday 19

At night whenever you step out on deck you get the certain feeling that you are underway & bowing along (rolling along at fair speed  $7\frac{1}{2}$  for this vessel) so strong and constant is the wind, ~~and~~ as the waves go racing by.

This a.m. we wanted an early start for north end by last night's lowering, this made the Capt. uneasy and he insisted both boats to be on safe side (Used E.L. over side at 10 p.m.) Well breakfast was late getting boats ready was late, & it was dark, though we (all) for once were ready & ran to go. It was 9:45 before dark, but, & I shoved off in the smaller shores of the two dinghies.

Scarcely a roll as we passed gap in reef and before end after gap sea was easy on us and boats. Collected around lunch site on landing place of two days ago. Had lunch at about 1:30 and at 2 p.m. walked up shore to point where reef joins main land.

extension of reef beyond - off shore



There is a little

16<sup>h</sup>

April 17 little crab in rock hole.



Quaker said  
Lunch, wed take what was handy &  
breakfast, eggs, ~~all~~ leavening  
other days.

April 19 entry is 3 pages back. ~~(to front of book)~~ April 18, 1960

April 18 Had show down with Capt on Ford  
and menus. Had to ask him to sit down ~~to~~  
after dinner to discuss matter with us.

Said he'd served us meat 2 times a  
day for weeks evidently considered bits of left  
over fish in P will admit decent tasting sauce  
as "meat". As Bousfield put it we expected  
more than a subsistence diet and wanted to  
get away from feeling that we were being  
rattened for what?

Capt. asked us what did we want  
& I suggested if we had an inventory about  
st available food that we could help with  
menu & perhaps satisfy ourselves, but that  
he would not do let us see or know what  
stock food he had. (I had bet at our lunch hour  
yesterday's shore discussion he would no

We did object to starchy diet & he said  
was only last 4 days. (But was more)  
hot cakes, French toast etc.

Native in "San Jorge"  
St. George came by to offer  
green coconuts. Capt asked about really  
① and bread ②; I asked for Papaya Capt  
bought 12 but why after I'd offered to  
buy six. Native with little boy I phoned  
them, I hope well, said he fish but brought  
bread he promised // would like to have had  
native's name & that of boy.

Duiper gave Capt idea of menu  
to eat of whole vegetable & desert



Wednesday April 20 at  
Pangah Hotel at 10:00 am  
Jorge Gonzalez Ft. G.R. Mex  
Deep to Ruins (Tulum)  
Impressive sight figures on temple.

less up in air

Very steep steps up from foot of main  
temple — most beautiful side &  
shores and palms, tropic paradise  
at best as far as color &  
cool winds go in sun brightly  
hot, on shady side & in buildings  
delightfully cool and refreshing.  
Mutilated home of care taken typical  
of houses I suppose Maya even  
people lived in.

May 1

A cup of coffee brings perspiration out on you so that your <sup>wrist</sup> hand is so wet that paper can't be written on such is the humidity here.

Capt. and Andy are occupying bunks (transoms) in eating cabin resting from night's labors. I do not blame them for wanting to do so but we could not use space or table, nor could Rehder get in locker there assigned to him without waking Andy up. I had to reach up over Capt to get my laundry from Jack's shelves. Might have dropped a pc ~~onto~~ + ~~wakened~~ Capt. Sure as shooting he would have suspected me of doing it a purpose; just as he would if tomorrow I sat there to write in a.m.

9<sup>30</sup>/<sub>2</sub> Breakfast today awful, but no milk to add. 2 fried eggs 2 slices "spam" of which I only wanted one.



9:30 dinner

April ~~22~~ 30 Dinner

boiled potatoes

Fish,

} no lunch this day  
Capt. was invited  
to lunch with us  
at hotel

both at all need. Rehder & Haber got nice sq of  
chump & I got belly search

that did not smell so good.  
I'd asked for only half a many potatoes  
as R. got.

half milk for coffee <sup>weaker</sup> strong powder  
diluting canned milk

Wesley banana, canned fruit or  
pastry, I hady, abt fully let it shoke  
for ashore. Capt seems to  
like the but 2 much grapes

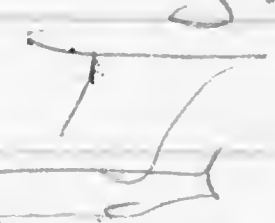
milk gives ~~me~~ for me.  
for white coffee too much  
+ for H + R. tea, too fine in tall  
bowl (too coarse) cups become full  
of "sediment"

Why not tea bags or  
in "Cognac"  
or canned milk etc  
? too expensive?

In about 4 p.m.

March 24. } 11  
25 } 60

Here we are in the open roadstead of progress, to the westward of the long pier anchored and riding up and down swaying from side side in the strong wind. Low lying flat land, few buildings close to beach and lighthouse like a Moslem minaret rising, so it seems from the shoreward end of pier. Along side it at far end of <sup>yellow</sup> red shuttered warehouse

topped pier end is a navy vessel like Bob's early Norfolk assignment with a large white 50 on the bow. Shortly after we came it at four <sup>Re</sup> little  square sail boats of fishermen came scurrying in days work done and supper to get. Do the market the days catch. The same evening many were fishing 2 hrs or more (by Blue Goose) out on high seas. Though the Amarete pier

with its many arches is impressive, with its huge Mar, 25 warehouse at outer end bright yellow with red tightly shuttered windows, the view from the sea is unpossessing. Harald remarked about how cool it was R. a.m.  $20^{\circ}\text{C}$  (= just about  $68^{\circ}\text{F}$ )

It was a pretty sight seeing the fishing boats go out this morning first 2 were going by when I was on deck at 7:30 (tho I'd been up at 6:30 or before) by 7:50 There must have been seven in sight but too scattered for an effective picture, & also a bit too far away. Out all day 7 (when they may have shifted from shore) till 4 when we saw them coming in yesterday.



1960

12

Mar. 25 We are gently rocked this a.m., and from fairly early last night. It's quiet soothing in bed babies in rocking chairs, but constant and so not so pleasant if you want to work and write.

Mar. 25. This a.m. on deck at 10<sup>30</sup> Capt tells me he got lot out of sailing directions last night. I gave them to him in Miami. Went on to say the rise and fall of barometer was characteristic of this place, I had never seen so great a rise and fall any where, that in a.m. sea was calmer and winds less, and that they got up toward afternoon and through early part of night & die down again toward morning. Now he tells me after yesterday's jitters, & I tried telling him all along ~~the~~ how much & how he behaved hereabouts. He's got lot to learn about sea heraboats. May be able to sail a schooner, and boys on board say he is a very good navigator, chart plotter & maybe too dead recorder.

{ Behder says they forget to wind clock that they use for a chronometer, that's why we had to wait breakfast clock said seven. When we went in Freelance Desmond's first question when do you want meat? Well here we get them catch as catch can breakfast anywhere from 10-11, lunch as late as 3:00 dinner near or 9 p.m. than otherwise.



March (26)  
 What a day could not get off to  
 planned 8 o'clock ashore so  
 missed. Bousefield who went  
 around under own steam after an  
 hour from Merida airport to bus  
 (Mulle Jack + Laiter who came  
 Taxi = 50 pesos. Bousefield got  
 a local

Any way we had asked if we could  
 be put ashore at 8 o'clock. Bousefield  
 who had to go to Merida for shots  
 could go airport. by Capt. raiding us,  
 but times are at 12 noon + other  
 at 5.30. When I went ashore Charles  
 (collector) got Laiter picture taking; got  
 to lose Broun ties + 2 out there  
 to Pilot Capt. about to get nail  
 hands, brush, lamp shade, shoe change  
 wall mirror. Could have gotten back  
 by 10 a.m. We did not leave until  
 until near (or after) 9 a.m. until Capt.  
 who could not get back to bank to draw  
 two 100 hundred dollars; so he had  
 pressed to death photo to go to  
 Merida to cash the, a end the



by Redder who had gone, or what  
to do. I had to act short his fussing  
by taking lead back to ship. We were  
back in half an hour despite the  
fact that he anchored well & gone  
from shore and pier, even  
though water was some depth every  
where. I was deathly afraid of a  
natter, and I guess hunted about  
2 miles between himself and shore  
even though six or seven Spanish  
boats were anchored with in 2-300  
yds of shore off end of lesser pier  
off end of which was not less  
than 15 feet of water.

Well he sat around with this &  
that acquaintance in town. 12. came  
advent + 12:30 and 4 P.M. The day  
2<sup>nd</sup> 3<sup>rd</sup> P.M. he went by with his 100 lb and  
that should have been with  
as equipment before we left Miami.  
In morning B. and J. came along  
and hired ~~to~~ <sup>next</sup> boat for 4.00 U.S.  
to take him and to ship several  
boxes before 1 P.M. 2 and  
out in dingy. Finally he had



Bonsfield

Bonsfield had + we all went to  
immigration office to get clearance  
Still no Rehder so Capt. went  
in short again to take him by I<sup>m</sup> <sup>migrator</sup>  
office who fortunately had his  
office in his home and was  
willing to take on changes or  
visitors (tourists at most any  
day. That is half day holiday  
and family after family including  
grand parents wandered down  
to and along sand beaches. It  
was a homey and indeed a touching  
sight.

Mar. 28. In looking around for can from which  
to pour ~~glades~~ white gas. I suggested one of  
Cuphuins empty cans with spout. He used a  
cheap grade of gas, but said to make I'll make  
a deal with you - give you can of gas which  
you can replace - ~~cheaper~~ <sup>softer</sup> gas for better  
and a deal he says after we gave him 25¢  
for Radio that is no more than a receiver.



1964  
1911  
49

those in which

marine biological expeditions such  
as, I have had the good fortune to  
participate ~~during the~~ in the course of  
~~the past half century~~ over the past  
49 years

marine biological exploration  
in which

Biological marine exploration  
with which ~~such~~ <sup>as</sup> I have had the good fortune  
to be associated for the greater part  
of the past half century, is one of  
the most fascinating and rewarding  
pursuits that one can follow on  
this <sup>earth of ours</sup> ~~world~~, ~~and I am~~

Marine biologists do get to see  
the world and some of its most  
fascinating places. High  
among them Magellan and Magellan

~~Naturalists~~

Museum biologists, and especially  
those who <sup>have gone</sup> ~~go~~ exploring on its <sup>its</sup>  
marine biological marine expeditions

~~marine biologists who go exploring~~  
on



There are always the experience and educational factors ~~to be~~ <sup>to be</sup> given weight in evaluating the worth wholeness of these expeditions to the participants, and to those to whom their observations and findings are communicated by published report or lecture.

The sidelights of ~~some~~ <sup>these</sup> marine expeditions can well be one the highlights from a purely human point of view

we get to collect in out of  
the way seldom visited places  
places inaccessible to the point  
travelling on <sup>very</sup> tight ship or  
train ~~timings~~ schedules.

{ I know of no one who  
has collected off Zulun before



2 inch

Odd looking

A micro, Hormaledra sabalella (Chamb).

This tiny moth of just (the leaf 2 inch space <sup>leaf</sup>)  
was <sup>first</sup> described in 1880 from a single ~~specimen~~ ~~found~~ ~~from~~ ~~a~~ larva found on a  
specimen reared ~~from~~ ~~palmetto~~ from  
Florida palmetto.

Although specimens have ~~been~~ <sup>come</sup>  
~~received~~ <sup>to</sup> the National Museum  
from Alabama, Mississippi, Louisiana  
and Texas, this is the first record  
from outside of the ~~Southern~~ United States.  
<sup>It</sup> ~~and~~ is new to the Mexican fauna.

## 'Where Do Trade Winds Blow?' Asks Dennis, 13

Andy sends a Hammond's International World Globe to Dennis Gondek, age 13, of Sioux City, Iowa, for his question:

Where do the trade winds blow?

The trade winds blow in two belts around the wide waist of the world. They blow from the east in a steady stream day and night. Because the curved surface of the earth is rotating, these winds from the east are twisted. The trade winds north of the equator blow from the northeast. The trade winds south of the equator blow from the southeast.

The two trade wind belts begin at latitudes 30 degrees north and 30 degrees south of the equator. At the equator, the opposite winds meet and we have a region of calm, rising air. Latitude 30 degrees north cuts through the southern part of the United States. North of Jacksonville, Florida, the prevailing winds are the westerlies. South of Jackson-

ville, near latitude 30 degrees north, the prevailing winds are the northeast trade winds.

**B.E.**  
THE WORLD'S FIN

BEAMS  
OLYMPIC

Malobtao tech a cuchul is wel-  
come in the Mayan language, as in  
Spanish Bienvenido. Not only did  
This years <sup>S.B. Exped</sup> expedition ~~find~~ received a most  
friendly welcome from the Mayan and  
Spanish residents of Yucatan and ~~Quintana~~  
~~Roo~~, but the expedition's members <sup>enthusiastically</sup> welcomed  
the opportunity of exploring <sup>the</sup> ~~the~~ shores  
of Quintana Roo and Cozumel  
once the lair of pirates and perhaps  
the home of buried Treasures. Their  
~~fair eyed blond haired, ogassant~~  
~~blue eyed fair hair, after blue eyed~~  
but ~~no~~ blue eyed but more often  
hazel eyed descendants can be seen  
in the schools of San Miguel the port  
of Cozumel. We saw them on  
the way to school and at recess  
time while we were ashore &  
collecting or for supplies in the  
local shops. Yes the Morgans  
and the Bradley names are still  
here. In the Plaza of Cozumel



stands a Monument to Lt.

Quintana Roo, from whom ~~the~~ <sup>much</sup> ~~the~~ province derives its name. As a young man I recall the tales of his unexplored land where the Maya civilization once flourished years before the Morgans and the Bradleys ever raided the Spanish galleons and others in the Caribbean.

Order ~~Scyphomedusae~~ <sup>Mayer</sup> ~~Coronatae~~ (Linnaeus) Sta  
~~Peromedusae~~ (in our cat. cards) 71-60  
 Fam. ~~Ephyropsidae~~ <sup>very</sup> and are April 4  
 are creatures of open sea, widely 1960  
 distributed, but are especially  
 abundant in the tropics.

The ephyra is produced by strobilization.  
 13 mm. High. 16 mm wide.  $\frac{1}{2}$ " plus  $\frac{5}{8}$  inch high. (Appear in Feb/Mar  
 hundreds of swarm  
 all the creeks)

In Bahama - Florida region in spring  
these medusae form swarms miles in  
extent, filling water with myriad of brown  
himbles all actively spinning clock wise  
as they progress through the water.  
Mature in April disappear in mid May  
When mature rise in vast swarms to the  
surface, and the eggs are discharged and  
fertilized at 8 p.m. When gonads have been  
expended medusae sink down to bottom and  
die.

Mus. specimens all from Fla Sts  
northward. Haye - Massav  
Bach. 2

Female gonads. slaty or blue grey  
Male brown.

1912- Daye Passag. 50+  
 1914- Bahama Bch. 30+  
 E. coast Fla. 15+  
 off Havana 7, +2  
 Fla. 503. - 26  
 - 6  
 - 35  
 Oahu 1930 40+  
~~1930~~

Drift north in Gulf Stream,  
from West Indies and Florida reefs.

1907 40+  
 1908 25



50,000 00.

Order

Discomedusae (Cuv. & Clap.)  
(Whitman)

Somaestomae  
Mayer

(Pelagia)

Fam. Pelagidae.

Sta. 71-60  
April 14  
1960

Medusae of the genus Pelagia develop directly from the planula without going through a sessile scyphostoma stage.

Pelagidae are of world wide distribution, but are most abundant in the tropical regions.

Many of them congregate in great swarms in bays and estuaries, and none are known to live permanently at great depths.

The medusae of Pelagia, being pelagic in all stages are creatures of the high seas;

The young medusae pass through a 4-tentacled stage before acquiring its 8 adradial tentacles.  
Bell  $40 \frac{1}{2}$  in. high and  $50$  <sup>almost 2 inches</sup> mm. broad.

West Indies and Florida reefs  
dredged in Gulf Stream



Palagia nothluen

15° 49' 00" N

67 36 40" W

Alt. 123, Surface.

Feb. 7, 1884

Fewkes det.

1 M. B. S. S. S.

37 23 N

36

39

West

68°

70°

74°

# Notes: Fran Pearse Portugas

## Speciospongia vespara (Lamarck)

From 2 fms = 50,000 c.c.

Worms 5 sps

Barnacles 2 sp. 30 spns

Isopods 3 sp. 248 "

Typthon 1 sp. 2 "

Synalpheus 2 sp. 5,633 spns.

Processa 1 1.

Fish. 1 1

From 10 fms.

50,000 c.c.

Worms. 5 sp.

155 spns

Barnacles 1 "

400 spns

Anghipods 3 ..

75 spns

Isopods. 3

362

Nebalia 1

72

Shrimp. 2

12,432

Crabs. 2

6 spns

Fish 1

1

	Species	fms	spns.	10 fms	species
Worms	1	5	spns.	155	5
Barnacles	2	30		400	1
Anghipods	3			75	3
Isopods	1	248		262	3
Shrimp	2	5633		12,432	2 Nebal.
Crabs	1	2		6	
Fish	1	1		1	
Net 11 =	10	5916		12,563	18

119 Stations

Father Nagel

Apr. 23 7 sling rays

Last three days. 15, 14, 13.







But it is neither

~~What~~ you will remember longest  
is not ~~the~~ heat or cold, rain or sun  
shine

~~But what~~

about climatic conditions in  
Quintana Roo is ~~neither~~ <sup>not</sup> the heat, or  
the cold, rain or sunshine, but the  
wind.

I have experienced many  
winds, ~~as names whether named~~ ~~and windy days~~ <sup>from the</sup>  
~~the Gulf of Alaska~~

Straits of Magellan to Alaska but

never have I met any as ~~persistent~~  
as ~~constant~~ <sup>as and perhaps as strong at times</sup>  
~~persistent~~, and indeed

as insistent as those ~~to~~ encountered  
~~in the Gulf of Mexico~~ in the Cozumel

Channel, and along the coast  
of Yucatan from Ascension Bay  
on the south to Progreso on the  
north. Some evenings at

~~anchor~~ and breasting the wind

~~our~~ schooner would the rigging  
would whistled, and our schooner

rise and fall with the onrush of

swell and ~~the~~ waves even behind the ~~deck~~



~~But the~~

~~But is is not the den~~

4  
Reef sheltering at Ascension Bay,

as though you were doing 20  
knots or better in the teeth of a gale

~~It~~ <sup>Frankly</sup> ~~Frankly~~ ~~these~~ ~~was~~ ~~were~~ ~~exhilarating~~  
~~It~~ was exhilarating to say  
the least, despite the Captain's  
anxiety, and the fact that the  
dragging anchor forced a shift  
of position. <sup>Here our</sup> <sup>scare</sup> ~~side from the sudden~~  
~~the spots~~ <sup>Quin</sup> <sup>and</sup> <sup>an</sup> <sup>anc</sup>  
Roo winds ~~are~~ <sup>are</sup> ~~not only~~ <sup>are</sup> ~~persistent~~

~~and~~ insistent ~~on your mind~~ day  
and night. <sup>The only full and</sup> <sup>smooth even that</sup> <sup>seem skipped</sup>

~~and you are~~ <sup>says sailing direction</sup> ~~conscious of their~~  
~~insistence~~ day and night. ~~They~~  
can be irritating to the readily  
irascible, ~~and~~ <sup>But all said and done</sup> ~~after over and~~  
~~they can be~~ <sup>above all</sup> stimulating. You  
want to get on with the  
work, and so I believe the  
Mayas ~~set~~ reacted to them  
to witness their impressive building



move to another area but  
two centuries later as the land <sup>was</sup> ~~had~~  
apparently ~~to~~ <sup>reborn</sup> and ~~built~~  
recovered ~~again~~ its fertility.

~~At~~ 3 Chicken Itza these are 4 great  
temples ~~have~~ <sup>in turn</sup> been successively  
entombed beneath the present one  
we find on what <sup>must</sup> have been  
considered hallowed ground by  
the Mayas.



Paul Bush Romero  
President  
CEDAM.

Ave Jalisco 127  
Mex 18, D. F.

(Tel.  
15-45-  
93

and  
15-69-81)

Club de Exploraciones  
y Deportes  
Nauticos de Mexico, A.C.



# Welcome TO HOTEL MAYALAND

Family

Committee

YOUR GUIDE IS

Mr. Miguel

YOUR ROOM IS

Room 101

YOUR FIRST TRIP TO THE RUINS WILL

START FROM THE HOTEL DESK AT

1:00 P.M.

YOUR TRANSPORTATION RETURNING TO MERIDA

WILL LEAVE PROMPTLY AT

1:00 P.M.

ON

April 26

WE HOPE YOUR VISIT WILL BE PLEASANT IN EVERY WAY

DATE OF ARRIVAL

April 25, 1960

BY

Sr. Miguel





## "TRANSPORTES AEREOS MEXICANOS", S. A.

En vigor: Abril 21 de 1960.

302 DC3	304 DC3	304A DC3		305A DC3	305 DC3	303 DC3
Do <i>Sun</i> Ma <i>Tues</i> Ju <i>Thurs</i> Sa <i>Sat.</i>	Lu <i>Mon</i> Vi <i>Fri</i>	Mi <i>Weed.</i>		Mi	Lu Vi	Do Ma Ju Sa
11:45	07:30	07:30	Sa MERIDA.....TSC...L1	10:55	12:55	14:55
<u>13:05</u>	-	-	L1 COZUMEL..... " ...Sa	-	-	<u>13:35</u>
	08:55 09:30	<u>08:55</u>	L1 ) CHETUMAL... "....(Sa Sa ) L1	<u>09:30</u>	11:30 11:00	
	<u>10:05</u>		L1 BELICE . . . ".... Sa		<u>10:25</u>	

TSC - Tiempo Standard del Centro.

México, D. F. 26 de Marzo de 1960

p.p. Lic. Mario S. Colorado Iris.

Aprobado por la Secretaría de Comunicaciones y Transportes según  
Oficio No. \_\_\_\_\_ de fecha \_\_\_\_\_  
con carácter revocable y provisional.

Ing. Walter C. Buchanan.  
Secretario de Comunicaciones y Transportes.

Bottle rum (Corumel) 35 peso

wooden cany 65 peso

Bracelets diving 4/30 peso  
(3 at 60 5 at 50 peso)

180  
4250  
30

2

4 sarapies 40<sup>50</sup>, 62,50 282,50 peso

70 pesos

90  
62,50  
152,50  
70  
60  
282,50

Last day Corumel

3 wartyies was dips  
at 20

66 pesos

2 plouses 38

76 pesos

1 girls waist 25

25

12,40) 979,50  
86800  
111,500

3 2  
979,50



	Pen, fountain	4	
tools	Head light	1	4.50
	Batteries for	6	.98
	Cold chisel	1	.35
	Files 6" fine & coarse	2	.50 1.00
	Razor Blades S.E.	12 <sup>3</sup> pr	10-.30
	Alum Rule, metric 15cm.	4	
	Glove, rubberized Coopers	8 pr	1.98
	Syringe, basting	2	.98 1.96
Glass	Rubber tubing 3/8" x 1/2"	6'	
	110c Forceps - 10" bottles	12 pr	
Dist. Dist	" Cotton - 6" Angle	6 "	
80412	(Net, Dip - Tropic waters #5	8	
	" " " " #6	8	
	" " " " Turtox	1	
Elman	(Chloroform	50 grain	
	MS 222	10 "	
	Plastic compound scalor -	3 tubes -	
40415	Funnel, Galv 1/2 throat -	1 ea -	.80
	Rope, Manila - 1/4"	200 ft -	.027-

Not yet Recd - 2-20.59

~~Aloe 6 Forceps - Have~~

Jenks - 6 Battery

Firestone - ~~6 Inner tube~~ Have

4 Fountain Pen -



Oxford Univ. Exped.  
to Caymans. 1938  
Pickford, Proc. Malac. Soc.  
28, 1950

Sta. 77a  
Georgetown Grand  
Cayman

\* Jackson's Pelican  
G.O.

23-IV-1938

Barker's rock  
20-V-38  
N. of Barker's rock.

"Old Nuncio" wrecks South sd.  
28-V-38

1/2 mile out from Water Cay  
dredged

Herpetology of Cayman  
Chapman Grant P.  
Bull. Inst. Jamaica

Science Series No. 2, 1940  
[41]

Turtles prefer sea-thimbles, Linuche  
to all other food.

Natives of Providence + San Andres do not  
cast their <sup>turtle</sup> nets till sea-thimbles are running

A. E. Salisbury, Mollusks

Malacological Soc. London, Proc. vol 30  
Oxford. { Cayman Brac. 1953.  
1938 { May 18 - 28 } pp. 39-54

{ Little Cayman

{ May 28 - June 10

{ Grand Cayman

{ Apr. 17 - May 16.

{ June 11 - Aug. 27



R.N. Wegner  
Zum Sonnenfort  
durch altes Indianer-  
land.

328 pp. 226 illus. 

9 R.M.

---

2nd edition

---

L.C. Wittich, Darmstadt  
pub. /

---

Cayman's, 2,12,251  
294-7.

		miles
Grand C	5,100	(17x7)
Little	100	(9x1)
Cayman Brac	1500	(10x1)

70°-84° (70 inches) 1503 AD. Columbus

Air flights to Tampa  
and Kingston B.O.A.C.  
to Miami

Cave and ~~natural~~ Cisterns (2x week)  
near Bodden Town (3 1/2 hrs.)  
another cave on N. side of Id.  
1 1/2 miles from old Man's Bay

Swan Ids (?)

Mosquitoes are bad!

- 1 Jack
- 2 Al
- 3 John
- 4 Delaware
- 5 Bruce
- 6 [unclear]

Bousfield





The Ancient Maya  
Sylvanus Griswold Morley  
Stanford University Press  
1946 pp. check date of latest edition

---

The Rise and Fall of  
Maya Civilization  
J. Eric S. Thompson  
University of Oklahoma  
1954 Press  
pp.

---

Guide Book to the Ruins of  
Quirigua (Supplementary Publication  
Sylvanus Griswold Morley No. 16)  
Carnegie Institution of Washington  
1935

---

pp.

What has S.I. publ. on  
ancient = Maya =

Arithmetio 55, 144-45, 154-58 11

The Rise and Fall of Maya Civilization 187, zero concept 155, 158

J. Eric S. Thompson

No other people in history has taken such an absorbing interest in time as did the Maya, and no other culture has ever developed a philosophy embracing such an unusual subject.

<sup>p. 140</sup> "The Maya idea of the eternity of time was noble." } p. 138 The stelae were time only, but the mss. took care of other features of intellectual life and philosophy

... as those tireless inquirers explored deeper and still deeper into the eternity of the past."

One inscription probes 90,000,000 years into the past, and another which sweeps back some 400,000 years. The accompanying glyphs record that the starting point of those calculations were thousands of million more years in the past. Indeed, we can feel rather confident that the Mayas had concluded that time had no beginning. [That it always was and went forward]

Time, in the conception of the Maya, sweeps forward, too, but surviving calculations carry us only a few paltry ~~four~~ millennia into the future.

"20 tuns" (approximate years of 360 days)



p.144 The Maya had no knowledge of handling fractions, and they had no decimal system. [2]

An error of <sup>[only]</sup> 0.08 day in the course of 481 years is a really great achievement for clouds interfered with observations. ∴ required many generations of observers to reach the final accuracy of the Maya — an error of one day in slightly over 6,000 years.

[in synodical revolution of Venus. There are only 5 inferior conjunctions of Venus in eight years and so in the 30 years of his manhood (the Maya are not long-lived) a priest-astronomer might under ideal conditions

p.146

The two requisites for success were boundless patience and close cooperation between astronomers of sundry cities and different generations

John Teeple

148 A second intellectual achievement was the construction of a table for predicting when solar eclipses might be visible.

p.149 (last para.) The really outstanding successes of the Maya in determining the average length of the synodical revolution of Venus, and in constructing tables of possible dates for solar eclipses were equalled by the accuracy with which they learned to measure the length of the tropical year.

P. 13

What mental quirks (from our point of view) led the Maya intelligentsia to chart the heavens, yet fail to grasp the principle of the wheel; to visualize eternity, as no other semi-civilized people has ever done, yet ignore the short step from corbeled to true arch; to count in millions, yet never learn to weigh a sack of corn?



2 1/2 centuries

Mayas or more than

100 fm line 1/4 - 1/2 mile offshore.

Draps 1/2 mile out from shore

rowed in 1/4 mile to off Cabanas

del

Cabanas

Caribe

# San Miguel

4 miles N.N.E. of

Caleta Bay

Caleta Bay

We got up at 6:30 Coffee at 7. 2hrs Later 9 a.m. back on ship

8 miles S.S.W. of N.W. extremity of Id., entrance

50 yds wide, & only 6 1/2 feet deep!

Cabanas Caribe 4-5 mi. N. of San Miguel

Check guide

Cozumel 24 miles long av. breadth 8 miles

Current up to 3 knots

Winds up to 30 <sup>nat.</sup> miles per hr. statute mi. p. hr.

year like ours  
was shorter by  
a fraction of  
a day, developed  
a formula which  
I needed it  
to within  $\frac{2}{10,000}$   
of a day which  
has no accom-  
paniment  
than our present  
leap year  
introduced into



Turned a 1000  
years later  
produced 5.5m  
eclipses

Pro classic

1500 BC to 325

Darius AD

to 925 325 AD

QNT Darius

925 till present  
conquered

numerous  
by position  
abstract many  
quantity of year  
500 years before  
O was moved  
in old world

A champion  
realized that  
the challenge  
of 365 days in  
reality a year



To record as true  
my character  
& religion devot  
the only true system  
of writing evolved  
in the new world  
here truly the  
intellectual or  
ancient American  
about 1/3 Rev of  
can be read  
only 3 copies in one

Tangle of  
Mural  
B Mampuk  
Chidpa her  
Ancient Mayan

---

Kalun Gorin

d 17200 days

= 19.7 years)

each Kalun

a new delta

outlet in August

as last, as 357 AD



Kukulcan

200 ft. high 85 wide

91 steps.  $\times 4 =$   
364

plus. platform =  
365

one step each day  
of calendar.

28 ft wide at top

Vigesimal

---

Sacred year <sup>260</sup>

18

Palace Governor

320x40 m

24 rooms

artificial platform

rise to height of

5 feet

5 acres

---

Max Buller

Am



Produced a  
calendar not  
equalled in  
Europe a 1000  
years later.

With which of  
least 500 years  
before an system  
developed in  
Cyprus. Possess  
all the elements  
of modern arithmetic

Mayas five year as 365.2420  
Gregorian

365.2425

modern astronomical per  
it at 365.2422.



Robert Budget

John Carlson

① Sites	② class	3 class	4
4 Cities	19	39	54
(2nd)	(12 sold)		
200,000	50,000	<u>Column</u>	
Chikep			
Uxmal			

Total Population bet. 43, m. 11 <sup>300,000</sup> <sub>200,000</sub>

3 or 4 times to day's

was one of most thickly settled (densely populated areas) in world during 1st C<sup>centuries</sup> (now 8) of the Christian Era.

271 - 1,083 to sq. mile.

First Class cities = 200,000  
of which 60,000 were able  
bodies men



Dafen. <sup>sq. mi.</sup> 142-644 } 90,000

max. 760,373 } 31.

Notabuds. 12,850 } 11

---

City  
Ottawa. 222,000

---

Merida 154,405

Air View  
to compare

---

Richmond 230

Milwaukee 637

Aurora 499. (\$26,000)

---

~~Coastal~~ Marathon Peninsula with

guests as many as Calif. 13,

Nevada. (248,000)

N.Y. 15,—

---

See p. 306 ad. 6

---

Under Knight 51 million

Argentina (1,078,769 sq. mi.) 19

Belgium 8

Columbia 13

France 44.

West Germany (95,918 sq. miles) 53

Italy (117,477 sq. mi.) 48



Birmingham 326

Mobile 173 (231)

Montgomery 106

Phoenix 128 (331)  
Little Rock (196)

Berkeley 113

Fresno 128

Long Beach 256

Oakland 384

Pasadena 104

Sacramento 157

Hartford 177

New Haven 164

Jacksonville 204

Miami 254

More able men than  
there are people in Pensacola  
which = (51,000)

Atlanta	331.
Memphis	119
Georgia	112
Rockford	105
Fort Wayne	144
Evansville	128
Gary	168
Ann Arbor	108
Indianapolis	461
South Bend	131
Des Moines	177
Kansas City	130
Baton Rouge	125
New Orleans	570



Shreveport. 127

Balt. 949

Boston 801

Cambridge 120

Ball River. 112

New Bedford. 109

Springfield 162

Worcester 203

Flint 163

Grand Rapids 176

Duluth 104

Minneapolis 521

St Paul. 311

Kansas City<sup>Mo.</sup> 456

St Louis 857

Omaha 251

Camden 124

Elizabeth 112

Jerry City	299
Merant	439
Palmer	139
Trenton	128
Buffalo	580
N.Y.	7.795
Niagara Falls	101
Proctor	332
Syracuse	214
Utica	101
Albany	274
Cincinnati	503
Cleveland.	914
Columbus	375
Dayton	243
Toledo	303
Yonkers	168



Oakland Cal 243

Sacramento 182

Portland Ore 373

Albany 106

Essex 130

Phila 2,077

Baltimore 678

Reading 109

Scranton 125

Chattanooga 131

Knoxville 124

Memphis 288

Nashville 174

Austin 132

Corpus Christi 108

Dallas 434

El Paso 130

Fort Worth 228

San Antonio 408

(1)

The Federal Government of Mexico

Fourth, 1940 By courtesy of the Mexican Government, the

Smithsonian-Bredin<sup>Caribbean</sup> Expedition was <sup>enabled</sup> to make

~~extensive~~ <sup>comprehensive</sup> collections ~~at~~ <sup>off</sup> marine invertebrates, fish

and insects on the coast of Yucatan <sup>with eggs</sup> from the

Port of Progreso <sup>at the westward</sup> east and south to Espiritu

Santo Bay, Quintana Roo. ~~Our scientific~~

~~staff~~ <sup>years</sup> This expeditionary party <sup>when all were present</sup> this year <sup>numbered</sup>

~~seven~~ our sponsor Mr. Bruce Bredin, and

<sup>to the in-lab</sup> Mr. Ernest May of Wilmington Delaware, Dr.

Franklin C. Daiber, ~~the~~ <sup>ichthyologist</sup> ~~and~~ <sup>estimating</sup>

professor in the Department of Biological Sciences

University of Delaware, <sup>and from the</sup> Dr. J. E. Gates Clarke,

~~curator of insects~~ and representing the

U.S. National Museum, Dr. Edward L. Bors,

Seld, curator of invertebrate zoology, National

Museum of Canada, Ottawa, and representing

the U.S. National Museum; Drs J. E. Gates Clarke

curator of insects, Dr. Harold Behder, curator

of mollusks, and Waldo L. Schmitt, research

associate, Smithsonian Institution.

And what was ~~the~~ <sup>the</sup>

~~expedition~~ <sup>all</sup> about? Mangrove swamps,

First of fish + shrimp and crabs,

beach seas ~~the~~ other terrestrial and

marine amphipods, microlepidoptera, etc.



(2)

The charter boat season was well advanced by the time plans for the 1960 expedition crystallized, so it was ~~the men~~ <sup>out of Miami</sup> available ~~the~~ 76 foot schooner Blue Goose that was chartered out of Miami for a late March to early May cruise.

~~Though expedition did not officially get underway until the Blue Goose arrived~~

~~Though the official start~~ The expedition as such. ~~Although the start and official~~ <sup>for beginning</sup> rendezvous ~~for~~ the ~~expedition's~~ <sup>season's</sup> work was set for            in Progresso, Drs. Rehder and Schmitt ~~at the seathrough~~ accompanied the ~~over~~ <sup>over</sup> ~~don~~ of collecting gear, containers, preservatives at what not ~~down with~~ the ship which the Captain undertook to freight ~~down~~ for us. Leaving Miami.

{ on an auspiciously bright and sunny morning  
we passed down the river, past  
Ed Sinker            by the way and  
out to sea            7 uneventful days  
during which Dr. Rehder stood <sup>in front of</sup> ~~his~~ ~~stern~~  
wheel watch, brought us within sight of  
Progresso and its breezy roadstead on the  
evening of           . Next morning we  
were joined by Clark & Lauber



Dr. Daiber gave particular to the collecting of fishes <sup>primarily</sup> ~~especially~~ those associated <sup>with</sup> or living in and about ~~the~~ mangrove swamps of which he ~~made~~ undertook an ecologic study; Dr. Bousfield, ~~a specialist on barnacles and amphipods~~ whose first interest on this occasion was ~~the~~ beach dwelling <sup>shrimps</sup> and littoral amphipods, is also an authority on barnacles, and estuarine ecology as is also Dr. Daiber; Dr. Clarke welcomed the opportunity of extending his knowledge of ~~the~~ <sup>largely</sup> unstudied Caribbean and tropical American Microlepidoptera ~~and~~ and Dr. Rehder, the opportunity of getting together material for a paper on the mollusks of Yucatan of Quintana Roo; Dr. Schmitt ~~also~~ <sup>did</sup> gave special attention to the collecting of decapod Crustacea, and as ~~the~~ all other party members ~~at~~ <sup>in</sup> ~~make~~ <sup>fruit harvest</sup> gathered ~~in representative series of the various~~ <sup>representative of</sup> groups of marine invertebrates native to the area. ~~Andy Hays was~~ <sup>Andy Hays</sup> ~~one of the crew members~~ <sup>was the most experienced diver</sup> and he <sup>with his</sup> ~~appear~~ <sup>whipped</sup> for us a number of ~~specimens~~ <sup>fish</sup> we would not otherwise have seen for specimens, or for food. ~~Andy Hays~~



Our mate ~~also~~ proved to be a most <sup>③</sup>  
able assisted in both. Later in  
the mangrove rough waters and  
all of us with his skill at landing  
boats and recalculating outboards.

---

The

# Ode to the Yucatan Trip. ① (ala Harald)

The Museum got "Blue Goose" on ice  
To study the life of the sea

Six weeks did they sail

Got almost no mail ~~at all~~

Five field men and crew, one two-three

Waldo: Of our leader, we think quite a lot

But he under the collar gets hot

"Harald, where is the label?"

Put the rum on the table."

He's still the best field man we've got!

Jack: The guy that for flies should be netting,  
On his seat most of the trip has been setting.  
Spends his nights on the shores  
Comes back covered with sores  
Small wonder the stuff he's been getting!

Harald:

We've a man, can tell cowrie from cone.

He covers the whole tidal zone.

"~~Lady Chatterbox's Lover~~" In his log on page three  
He read ~~the~~ cover to ~~the~~ "left my pants in a tree."

Waldo still thinks he's holding his own!

Frank: Our fish man's from Delaware U. ☹️

He's a big guy with words mighty few.

We've all got a notion

His hide needs that lotion.

He'll bring back that fish, if the last  
Thing he do.




Ed: Only one is from north of the border (Thank God!); amplifies his main order.  
While chasing the flea  
His jokes, repartee  
Are what one might call out-of-order

Tom: The skipper who runs the "Blue Goose"  
In port finds the crew on the loose.  
~~The~~ dickers in Spanish  
For supplies that soon vanish  
"What the Hell, soup half-cut is a juice!"

Andy: There's a seaman we hear comes from Boston  
Sailing data are what he's engrossed in.  
But when comes a hitch  
We hear: "Son of a b!"  
Nonetheless, he's damn good on langoustine.

Hal: We've a mate who's from Old Tennessee  
Runs an outboard that's ~~long gone~~ short on H.P.  
Wet mile after mile  
He says with a smile,  
"Don't worry, we'll get there, you'll see."

Now the end of the trip is in sight  
Cozumel's where we'll spend one more night  
The weather's been rough,  
And collecting's been tough  
We've done it boys, now let's get tight!



Over  
Mex. Influence  
Olt/ec 950-1200  
Aztec 1200 - 1500

---

Spanish Influence  
Imperial  
1511 - 1546

Spanish - Maya  
Cultural Mixtur  
1546 today  
Tulum large town



Felipe Carrillo Puerto

The man who freed the  
Mayas

over

For Yucatan itinerary

Get Beltran title and  
address. // Call AAAS?

Get Uxmal data

a. { Felipe Carrillo Puerto  
c. { man who freed the Mayas  
i. { Andres Quintana Roo  
o. { Surfadit  
o. { Indian Composition <sup>book</sup>  
used in report in Bahia, 1959 <sup>57</sup>

Morely died 1948

Get days at Mujeres  
Sur p. (3a) Fix p. 3a data  
times etc.

Fix 17a re Uxmal

" 18 re San Pedro

with references



G.O. Totten

3 ded.  
1956

Maya Architecture

G. Proskouriakoff

C.I.W. Pub. 558

An Album of Maya  
Architecture

Bull. Pan Amer. Union

April 1911

Uxmal The city of X'us

mangroves one or  
miles, reclaimed  
dead area.

Sp mgs

$2\frac{3}{4}$  cub. feet 2 lbs  
water.

---

56 36 shrimp

---

10 shrimp = 10,000

water, sand, all big  
shrimp

---

Tulum 564 A.D.

25 for steps, 40 over  
(all)

hull 20 - 25 feet.  
2400 ft. long.



Lunation 29 days

---

0.144

1un approximate year 360 days

Vague year of 365.

Cycle of nine nights

Cycle of seven days.

Lunar month.

Venus cycle 583.92 days  
584

---

were out b.t. 0.08 days  
in course of 481 years

---

Maya's 2000 years before  
Hindus developed 0 + positive  
all mathematics and 2000 +  
years before  
our ancestors

several years

272 feet side walls  
119 feet apart

Northward temple

---

Ball court

272 side walls

119 feet apart

---

Uxmal oval 160 x 240 ft  
80 feet to temple  
platform.

{ Temple 12 x 70 feet  
perhaps 20 feet high.  
in elevation



633-790 A.D.

Tulum on 40 ft cliff

Great wall 2,352 ft long  
Central portion 15-20 ft  
higher thick.

Stairway 30 ft wide 25 high  
Building 38 to 40 ft. high.

Winds.

$$\begin{array}{r} 70\% \text{ N.E.} \\ - 10\% \text{ Northerners} \\ \hline 25\% \text{ all winds} \\ = \underline{\underline{21 \text{ knots}}} \end{array}$$

Mar. April warmest

75° - 80 in shade.

Cool sea winds at night

Never below 39 <sup>107</sup> or over ~~107~~

Max. 80° av

Min. 60° av

80 on deck

83 below (out of wind)

with generator.



Uxmal

P. —

Bull Pan Am

second city in  
size and importance  
over 80 feet high and  
covers an acre of ground

Heavy rains for six  
months June — Dec.

= aguadas

0.453 Bull  
Pan Am

~~Chichen~~ ~~Castillo~~ ~~Itza~~ 78 feet high

195 ft base 9. Linnace

slain 37 feet wide

balustrade

Chicken Plaza.

100 feet high across  
44 ft wide steps.

2 feet wide  
at top

11 x 10 12 do s.

91 = 364 x 1 = 365

9 terraces. 18 seats

18 months 20 days

52 panels 360 + five

Sundial.

lint steps / hand  
after



Ball court

987. AD.

545 long <sup>(225 wide)</sup>

480 x 120 wide

80 foot wide (25

---

10,000 species

500 fish.

5,000 insects.

---

50-60 miles rain.  
Dec. May.

---

N.E. under 20% N.E.

10-12 miles one

up to 20.

Low 8/5 40-50 an hour  
39°-10°.

are. 60-80

1518 Discarded.  
Tulim.

1517. My-are

1511. 14 days in  
for ~~boat~~

May

Merida 15,000  
windmill  
160 people.

5<sup>th</sup> century.  
25 miles to Shu  
50 " to Uxmal



00 43

0 373

0944

0966

1072

12 25

12 28

12 33

12 35

14 11

18 56

2145

26 42

5050

5170

966

1/4 per  
S. L. S. measure  
& leaves

and sent

directly for  
you at the & carrying  
it



Index A<sup>2</sup>

~~Yucatan Channel~~ approaches

~~0966~~

~~(1411)~~

~~0944~~

~~to Hub and~~

~~2145~~

~~0373~~

~~Dominican Radi~~  
~~east Cuba~~

8. Index AA

~~5050 Series~~

✓  
2 copies

~~1235~~ Progress Index D1

~~1295~~ and

~~1233~~

~~1225~~

~~1228~~

~~1235~~

~~Cayman Id~~  
~~0043~~

Index E

~~5170~~

Swan Id

~~1379~~ coast

~~2324~~ of

~~1380~~ Yucatan

~~1072~~

Sancti Spiritus 2642

Index 1856

In future charters  
range of radio-phone

Function of Toilet & crew  
does not use guests (passenger)  
Toilets

~~all~~ Outboard 2 boats 2 if  
~~one of outboard~~ as none function  
on going day not per  
rated charter party at disburse  
of charterer.

All male crew including cook

Here before Burnett has all  
this (except outboard due to Jock)  
be wanted to take <sup>to committee necessary</sup>  
Curtis wife not objected

Also amount of deck leakage  
permissible should be  
spelled out. a shield under  
plates in deck above bunks  
to be provided if and drain if  
leakage is great



Dear Mr. Carmichael Capt  
Burnett received the enclosed  
bill for his insurance agent  
~~for~~ as "cost" of including  
the clause suggested by  
Mr. Danson's Office. The  
policy that Capt. Burnett  
carries is in behalf of owner  
charterers and members of  
charter party has always  
been deemed <sup>to carry</sup> sufficient <sup>coverage</sup> Capt  
Burnett, considering charter  
and a greenback form al-  
ready signed and approved  
by both parties (first & second  
and Langer 2<sup>nd</sup>), refuses to  
pay ~~this~~ this additional  
charge. ~~We~~ We cannot call  
~~for~~ ~~this~~ this date.  
If the Smith says the  
protection is suggested

~~Stephen W~~  
should

by Eliza Bannan Office A  
should pay the bill.

He thought disaffiance of  
~~the 180~~ being changed to the Bred  
fund. However it ~~will have~~  
to be paid if you insist  
on ~~paying~~ ~~at the~~ inclusion of  
the 180 dollar clause, and  
the S.I. refuses to pay ~~the~~  
at Cuff Burnett's point, of  
affine Mr. Bredin through his  
fund will have to pay it,  
and succeed only under  
protest.

Kindly advise me  
you decide in the matter  
before Saturday 10 a.m. as  
we plan to sail  
Sincerely



Telling me and several others, even  
Messrs. W. Howard Chandler, and  
James and a letter with the wife  
to the president of the

In the meantime, however, I shall appreciate  
anything you can do to obtain the necessary  
papers and to send the law to the same  
in person to others, with the report of  
the State the same report, the  
of course, should appear for the necessary  
aid.

Herewith, ~~is~~ a copy of the letter  
our Secretary Dr. Carmichael sent to  
the State Department regarding last  
year's trip and a ~~draft~~ <sup>copy</sup> of the  
letter, ~~that we have sent up to State in~~  
~~this mail.~~ <sup>this mail.</sup>

Do you think ~~that~~ <sup>it</sup> would suffice,  
or should I <sup>be</sup> asking ~~you~~ if you <sup>that may be necessary</sup>  
could get us <sup>the</sup> clearance ~~to do our~~  
~~for collection~~ <sup>thing</sup> in and ~~also~~ around the  
Yucatan peninsula? We shall  
scarcely be there more than ~~six~~  
four weeks. I wish I had thought  
of writing you sooner ~~for the~~  
~~time before~~ <sup>as</sup> the vessel should  
leave Miami to keep the Progreso  
date <sup>on March 19</sup> ~~with soon~~ ~~before~~ ~~and~~  
~~would have to get tangled in a~~  
~~lot of diplomatic red tape. We~~  
~~never have before.~~ I like to  
regard our <sup>collecting party</sup> ~~group~~ as a <sup>group</sup> ~~bunch~~ of  
touring yachtsmen who bring  
back such natural history specimens  
as they can collect for their  
home town museum, ~~and~~ <sup>and</sup> horse



<sup>this</sup> That ~~not~~ expedition may be regarded in much the same light. It certainly was so regarded ~~by~~ by the British and French in the Atlantic and Pacific. "Nobody gave us no mind," as the saying goes, and I hope that ~~may~~ <sup>will</sup> be our good fortune with the Mexican authorities whom you might consult. (~~if need be~~).

Our wants are simple. We pick up and pickle what we can find of all groups of invertebrates, ~~and~~ coelenterates, corals, echinoderms, starfish, mollusks, and crustaceans, and such fish as ~~come to hand~~ <sup>catch</sup> or ~~that~~ we can <sup>purposes</sup> ~~catch~~ <sup>net</sup>, all for scientific ~~study~~ <sup>identification</sup> and report, ~~and~~ strictly for the Museum and systematic study. Of these materials we, as always, stand ready to share duplicate specimens, turning over a representative set to the country concerned, after the collection has been worked up.

that <sup>this</sup> ~~not~~ expedition may be re-  
garded in much the same light.  
It certainly was so regarded ~~by~~  
by ~~the~~ British and French in the  
Atlantic and Pacific. "Nobody  
gave us no mind," as the saying  
goes, and I hope that <sup>will</sup> ~~may~~ be  
our good fortune with the  
Mexican authorities whom you  
might consult. ~~(if need be)~~.

~~otherwise~~



Our vessel is a small schooner, 70 feet long, the "Freelance" chartered in '56 and ~~58~~ was 86 feet long, and the "Caribee" in '59 was 92 feet. Aside from the ~~crew~~ the "Blue Boose" only sleeps six, the number constituting our party: Mr. J. Bruce Bredin of Wilmington, Delaware the sponsor of the expedition; Mr. John Finlay of Varadero, Cuba, malacologist who is preparing an annotated checklist of Caribbean - West Indian marine shells; Dr. Franklin C. Daiber of the University of Delaware, interested in fishes and ~~estuarine~~<sup>their</sup> ecology, and on this occasion in the fauna and ecology of mangrove swamps; Dr. E. L. Blousfield of the National Museum of Canada, Ottawa who ~~is~~<sup>Dr.</sup> is interested in amphipods and barnacles and also in estuarine ecology; Dr. J. F. B. Clarke of the National Museum, our curator of ~~insect~~ insects who specializes in microlepidoptera, little moths, ~~such as the leaf miner~~ (he works on ashore while we "mess" around in the water); and myself, leader so to speak, and collector of invertebrate specimens. Mr. Bredin



(6)

will join us sometime after April 10. He is unable to get away in time to rendezvous with the rest of us in Progreso on the 25<sup>th</sup> of March.

When Mr. Bredin does arrive the whole group ~~will be six of us~~ looks six in all, looks forward to a visit to the Maya ruins for which Yucatan is famous. On the way we would like to collect in the fresh water streams and pools that may be accessible. Dr. Horton H. Hobbs of the University of Virginia, and our leading ~~Amer.~~ North American expert on crayfishes, has asked us to bring back any that we might be able to secure. He has ~~collaborated~~ collaborated, or at least corresponded with Dr. Alejandro Villa-Lobos of the Instituto Biologia, of the Universidad Nacional. Dr. Villa-Lobos has worked in our laboratories in Washington and could serve as a reference for us if any is ~~needed~~ needed; also Dr. Enrique Rioja of the same institution is well known to us. My best

Villa-Lobos



1 Friend in Mexico, though I have not corresponded with him these past few years, is Dr. Enrique Beltran. He too, could be counted on to give us his favorable endorsement.

1 Thinking that they might be helpful, I ~~have~~ have included a second copy of each of the "narratives" and a carbon of his letter.

# ~~We hope that~~ ~~Acacia is hoping that~~ Dr. Carmichael's usual letter to State may, ~~as usual,~~ turn the trick for us as ~~it~~ it has for all our previous expeditions, without the necessity of a further assist.

There isn't much news on the home front — however Mrs Schmitt and I are looking forward to a ~~Fall trip to~~ mid summer's trip to Scandinavia the month after I get back from his next Bredin trip. When are you ~~coming this~~ <sup>with us at the Museum</sup> way again. We have Lipke Holt-huils of the Leiden Museum working up some of our Pacific collections under an O.N.R. grant. The more the merrier.

My best good wishes to you and yours, as always — ~~over~~



# ~~Here is hoping that~~ We hope that Dr. Carmichael's  
usual letter to State may, ~~as usual,~~ turn  
the trick for us as ~~it~~ it has for  
all our previous expeditions, without  
the necessity of a further assist,

There isn't much news on the  
home front — however Mrs Schmitt  
and I are looking forward to a  
~~Fall trip to~~ mid summer's trip  
to Scandinavia the month after  
I get back from this next Bredin  
trip. When are you ~~coming this~~  
way again. We have <sup>with us at the Museum</sup> Lipke Holt-  
huils of the Leiden Museum work-  
ing up some of our Pacific collections  
under an O.N.R. grant. The  
more the merrier.

My best good wishes to  
you and yours, as always — over



Sincerely  
Waldo

Waldo L. Schmitt  
Research Associate

Note: this P.S. must be on a separate sheet.

(8)

This P.S. is for you alone, and not a part of the letter which you may need to show elsewhere.

I happen to know that some years ago the California Academy of Sciences with a much larger vessel undertook an expedition to Mexican waters, and that they at the time invited a Mexican scientist to participate. But as much as we might like to do likewise, there just isn't room on our small craft. Aside from crew there are but six bunks one for each of our party of six. Therefore, I hope ~~that~~ an invitation will not be expected of us, for we are not in a position to extend one.





Alejandro Villalobos.  
Enrique Roja

Instituto Biología

P.O. Box 29817

Universidad Nacional Autónoma de México

Mexico 18, D.F.

Did I get S.I. check for air fare?  
" " " my <sup>5<sup>29</sup></sup> 5<sup>29</sup> refund?  
to Burnett

Did we pay entry fees 3 pens each

~~Copy 1st page Daiber letter~~

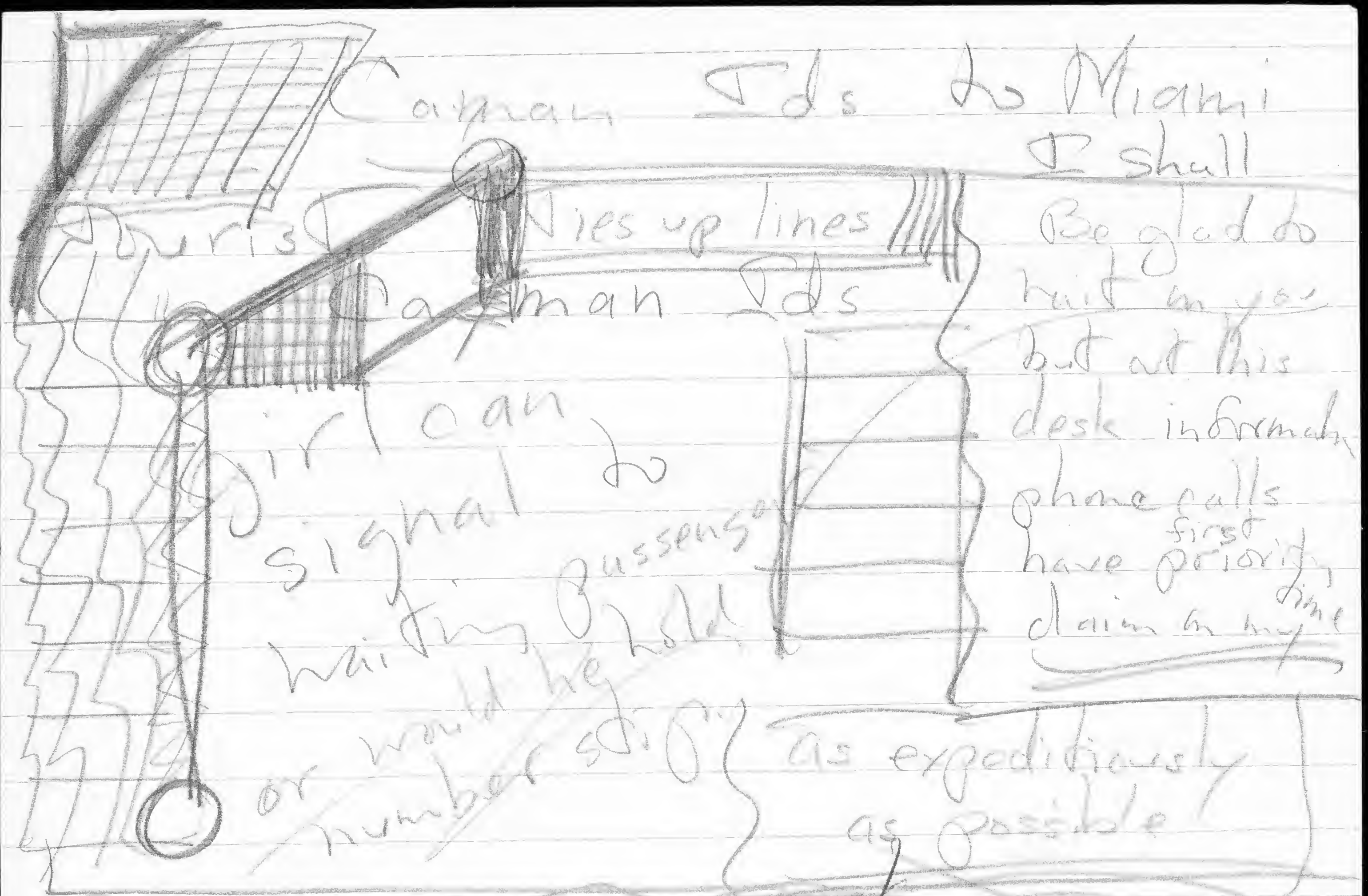
~~Add Daiber phone call~~  
~~Feb. 29 = \$1.20~~

Did we pay entry fees?  
Cost Vermont trip.

---

120 Super Hypan 48¢ ea  
620 Ekba ch 1.08 ea  
620 Verichrome 40¢ ea.





Re 7-8900

- ① Bean ①
- ② Hutchins ②
- ③



5400 49.80

4980

4.20

Striples

(2 inch)  
The Castillo of Tulum as seen  
from the sea.

Dr. Clarke standing (2 inch)  
by ~~one~~ of the gateways in the  
wall about ~~the~~ ~~area~~ Tulum

2 inch

make  
3 of  
this

← The Castillo at Tulum from  
the gateway

(2 inch)

The Tulum Castillo

(2 inch)

Looking down the stairway  
of the Castillo at Tulum. Dr.  
Clarke with insect net in background  
caretaker ~~in foreground~~  
Lot of temple in foreground.

2 inch

Family and home of Tulum  
caretaker at Tulum; characteristic  
native ~~thatch~~ house of palm thatch.

2 inch

Tulum caretakers daughter.

2 inch

make  
two of this

← View north along the coast from  
the Castillo at Tulum



Mr. Bredin in foreground ascending ~~main~~ stairway to the main platform upon which the observatory tower was erected

2 inch space

# Four members of the expedition party on the porch at the Mayaland Hotel Chichen Itza. [Note: In the original Kodachrome slide the Caracol showed faintly through the arch. Would it be possible to combine this and the next slide in one reproduction. of the Caracol at twilight]

2 inch.

Dr. Clarke sorting and pinning his evenings catch of micros. ~~For~~  
~~order~~ If not properly cared for while the specimens are fresh they are not ~~suitable for study~~  
in condition for later critical study.

One of the painstaking tasks that ~~is~~ falls the lot of a micro hunter. In the course of the cruise he pinned up in insect boxes not less than <sup>tearspots</sup> ~~for 4 figures~~ specimens of these tiny moths.

2 inch

One of the hazards of collecting in the brush ashore ~~is a touch~~ more than a touch of a relative of poison ivy that ~~abounds in~~ occurs on shore in Quintana Roo. This picture was taken after Dr. Clarke was over the worst of the attack both swelling ~~and~~ <sup>and</sup> blistering, and inflammation had subsided ~~noted~~ to a very great extent.



2 inch

~~Dr. Clarke picking amphipods~~  
~~and other small creatures that~~  
~~have~~

with forceps collecting

Dr. Clarke ~~picking~~ beach fleas  
(amphipods) that have taken refuge  
on his trousers from beach debris

(The white specks)

Thrown in the water of the  
lagoon at the north end of  
Cozumel

2 inch

Dr. Clarke gathering up beach  
flotsam to throw in the water  
lagoon at north end of Cozumel

2 inch

Dr. Rehder, and <sup>Mikael</sup> of Cozumel  
who volunteered ~~to~~ <sup>his</sup> assistance  
gathering mollusks from the  
tide pools near San Miguel, Cozumel

2 inch

Dr. Clarke ~~on the~~ chasing  
insects on the beach at ~~Tancab~~  
Tancab

(Quintan Roo)

make

2.

2 inches

Waves driving ~~on shore~~ <sup>and</sup> ~~during~~  
against the pier <sup>(Cozumel)</sup> during the  
bonanza of April 1960; and  
schooner wrecked by an

San Miguel, 2 inch

Waves driving against the pier  
at Cozumel ~~during~~ at the onset  
of the "bonanza" of April 1960.  
To left schooner driven on shore  
by an earlier bonanza.

2 inch

Emmet Bowen and Tony Halik  
heading south for ~~shelter~~ a safer  
haven at the onset of the April  
1960 bonanza.

2 inch

② Wrecked schooner as aquatic  
playground, San Miguel, Cozumel.

2 inch

report foregoing here

Phelma I  
have two  
pictures  
of this



2 inch on the road to Chicken Itza

make  
3 of  
this

Typical Maya dwellings, window-  
less but with doorway fore and aft

2 inch

Two Maya girls ~~at~~ on Chicken  
Itza ~~at~~ road; Caracol in the back-  
ground [really too dim to mention]

2 inch

Caraveler at Tulum to right  
assistant left.

2 inch

~~Boys~~ <sup>Boys</sup> fishing off the  
pier at Cozumel, when not  
~~swimming~~ going to school or swimming  
of the wrecked ship.

2 inch

make  
two of  
this

The San Jorge at Ascension  
Bay, with father and son who came  
out to visit us and from whom we  
bought a supply of excellent white  
flour native baked bread. These native  
youngsters learn practical seamanship  
at an early age. Dibs and unshipped  
bow spirit are lying on fore deck of  
San Jorge so that it could be tied up  
closer astern; to left one of our dinghys

2 inch

make  
two of this

One of Dr. Bousfield's loggerhead sponges being hoisted aboard at Isla Mujeres

2 inch

~~Section of loggerhead sponge examined by the late~~

Loggerhead sponge sectioned by the late Dr. A. S. Pearse at the Dry Tortugas, Florida, showing some of the many shrimps inhabiting its canals.

2 inch

at twilight

El Caracol from Mayaland Hotel porch, Chicken Itza. ~~at~~

2 inch

Dr. Clarke reading the inscription at the base of the monument at San Miguel, Cozumel honoring Andres Quintana Roo for whom the Territory is named

2 inch

The inscription on the Quintana Roo monument, San Miguel, Cozumel



2 inch

Court yard or quadrangle  
of the Nunnery at Uxmal

2 inch

The great (and steep) stairway  
at the Temple of the Magician  
at Uxmal

2 inch

Mr. Bredin~~at~~, Felipe Castillo, our  
guide, Mr. May, and Dr. Rehder in the  
background, <sup>standing</sup> at the base of the Temple  
of the Magician, Uxmal.

2 inch

A micro, Homaledra sabalella. This  
tiny, odd looking moth just <sup>leave inch</sup><sub>space here</sub> is width  
was described in 1880 after being reared  
from a larva found on a palmetto in  
Florida. Although specimens <sup>have come</sup>~~from~~ to  
~~species~~ the National Museum from Alabama,  
Mississippi, Louisiana, and Texas, the  
specimen here figured is the first ~~to~~ record  
of the species from outside the southern  
United States, and is new to the Mexican  
fauna

2 inch

A streak or band of the  
little thimble jelly-fish Linuche  
drifting by our vessel

2 inch

An aquarium shot <sup>mature</sup> male Linuche  
~~Linuche having a~~ distinguished  
by the brown gonads from the female of the species  
in which <sup>has slate colored</sup> ~~the gonads were slate colored~~

2 inch

Mature Female Linuche with slate colored  
gonads

2 inch

~~The purple~~  
One of the purple jelly fish swimming  
~~delicate~~ along in the Ascension Bay

One of the delicate purple jelly-  
fish found swimming in the swarm  
of Ascension Bay ~~Linuche~~ thimble  
jelly fish, Linuche

2 inch

The Sea anemones from the  
reef flats at Ascension Bay with  
tentacles extended.



2 inch.

This little ~~ere~~ <sup>Tuberculated</sup> crab, { please use two inch spacing name }  
was discovered in a cavity in a coral formation that was being cracked up for the invertebrates living in its numerous interstices and holes. Cracking up reef corals is one of the most rewarding ways of obtaining a ~~host of fine~~ specimens in quantity representative of many groups of marine invertebrates.

2 inch.

Scarlet ascidians growing in clumps on mangrove <sup>prop</sup> roots, Ascension Bay.

2 inch

A red sponge upper left growing on mangrove roots in Ascension Bay. Below the sponge is a spider crab, and below this in turn ~~is curving to the right~~ is a small white spotted fish, from the head to the left curving around to the tail on the right; other sponges and hydroids make up most of the growth here visible. ~~A very prop~~ <sup>tip of a</sup> ~~to the right of the photograph is~~ <sup>growing</sup> ~~downward~~ <sup>tip of a</sup> growing on mangrove roots.

2 inches

Algae, like the sponges, ~~also~~ <sup>form</sup> large festoons of growth around the prop roots

leave 4 inches here ↑  
↓

The branching prop roots give greater anchorage to the tree.

leave 4 inches here ↑  
↓

Large numbers of dead trees can be seen in this view of the Ascension Bay mangrove swamp. ~~There are few if any seedlings along its border~~

Dr. Daiber <sup>considers</sup> ~~remarks that~~ the Ascension Bay mangrove <sup>to be</sup> ~~is~~ in an old age stage as there are few if any seedlings along its border; instead, mature and dead trees form the front of the swamp.

↑  
leave 4 inches  
↓

They may have been killed by a hurricane that stripped the trees and flooded the area.



2 inches

which is first dehulled  
by soaking and heating

Carrying home their ground corn.  
~~which had first been dehulled at~~  
~~home.~~ After grinding in the local mechani-  
cal mill, <sup>the meal</sup> is made into a dough and  
baked as the well known native tortilla.  
Formerly the corn was ground at home  
~~between~~ hand between stones, a hand  
~~operated~~ roller and a flat understone.  
Today <sup>in</sup> every village or town ~~a local mill~~  
there is a local mechanical mill to  
which all house wives resort as these  
do have. Some have small hand operated  
mills at home. These women are  
~~wearing~~ <sup>wearing</sup> the characteristic ~~native~~  
every day native dress the <sup>hupil</sup> ~~hupil~~  
a sac-like garment <sup>hanging and extending</sup> with arm holes ~~and~~  
~~now-a-days usually~~ <sup>very</sup> short sleeves  
and a square cut <sup>hole for</sup> ~~opening~~ the head.

~~hanging~~ <sup>extending</sup> below the knees, with  
square cut opening for the head and  
arm holes, ~~the latter~~ now-a-days usual-  
~~ly~~ <sup>ly</sup> provided with short sleeves.  
The margins, as well as the bottom edge  
of this strip is generally beautifully  
and colorfully embroidered in cross-  
stitch, ~~although~~ <sup>the cheaper</sup> ready made  
~~garment~~ <sup>hupiles</sup> are merely color  
printed. Underneath is a petticoat

hanging well above the ankles  
~~that extends below the hip~~. Both  
these articles of dress are always  
spotlessly clean and white. The darker  
colored scarf—rebozo—~~is always~~  
~~is~~ over the head and variously  
draped over shoulders and arms  
is always worn ~~when out~~ away from  
home. With out it the Mayan  
woman feels not properly dressed  
in the street. ~~On festive occasions~~  
~~she~~ sandals or shoes <sup>maybe</sup> ~~are~~ worn,  
~~but every day~~

Bare feet are  
the usual rule but sandals or slippers  
or shoes of a kind are increasingly worn, especially  
on festive occasions.



2 inches

①

The jelly fish swarming in Ascension Bay ~~ex~~ recalled a like <sup>similar</sup> unique phenomenon that had not been seen or recorded before we witnessed it, or observed since, so far as I have been able to learn —

<sup>megaloops</sup> the swarming of the larvae of a raninid crab, by

~~it seemed.~~ millions ~~it~~ must have been

~~Before sunrise on the~~ <sup>April 1956</sup> the early morning of we went ashore at Pigeon Island off St. Lucia ~~before sunrise~~ to watch the natives of St. Lucia bring off ~~a great seine~~ a great seine haul but as we were pulling in to the beach we noticed that the ~~water~~ <sup>sea</sup> was alive with tiny red creatures, ~~dozens~~ <sup>half dozen</sup> to every cubic, ~~foot or less~~ <sup>or square foot of water</sup> When we stepped on the beach we ~~there was~~ <sup>found</sup> a thick windrow, miles long it seemed ~~and is several~~ up and down the beach as far as we ~~could see~~



is several <sup>or bands</sup> "waves" ~~as~~ left by the receding tide. <sup>(2)</sup>  
So red were they that they contrasted  
conspicuously with the golden yellow  
beach. One could scoop them  
up by quart with no great effort.  
So far <sup>it has</sup> ~~we have~~ only been <sup>possible</sup> ~~able~~  
to determine the family of crabs  
to which they belong. ~~We have not~~ <sup>we have not</sup>  
~~adult of that group~~  
~~adults of that crabs or related~~  
~~of a crab of that family in~~  
~~the area, and so the~~

and until ~~we can find any~~ adults  
<sup>can be found</sup> in the area, or not too far away,  
these little crablets — megalopa ~~larvae~~  
~~crab stages~~ ~~crab larvae~~ — will ~~to~~  
remain an enigma. Only in a  
~~color print~~ <sup>print</sup> can one appreciate their  
<sup>color print is</sup> ~~their actual~~ abundance on the Pigeon Island beach  
that day ~~revealed~~ <sup>demonstrable</sup> <sup>(2 inches)</sup>

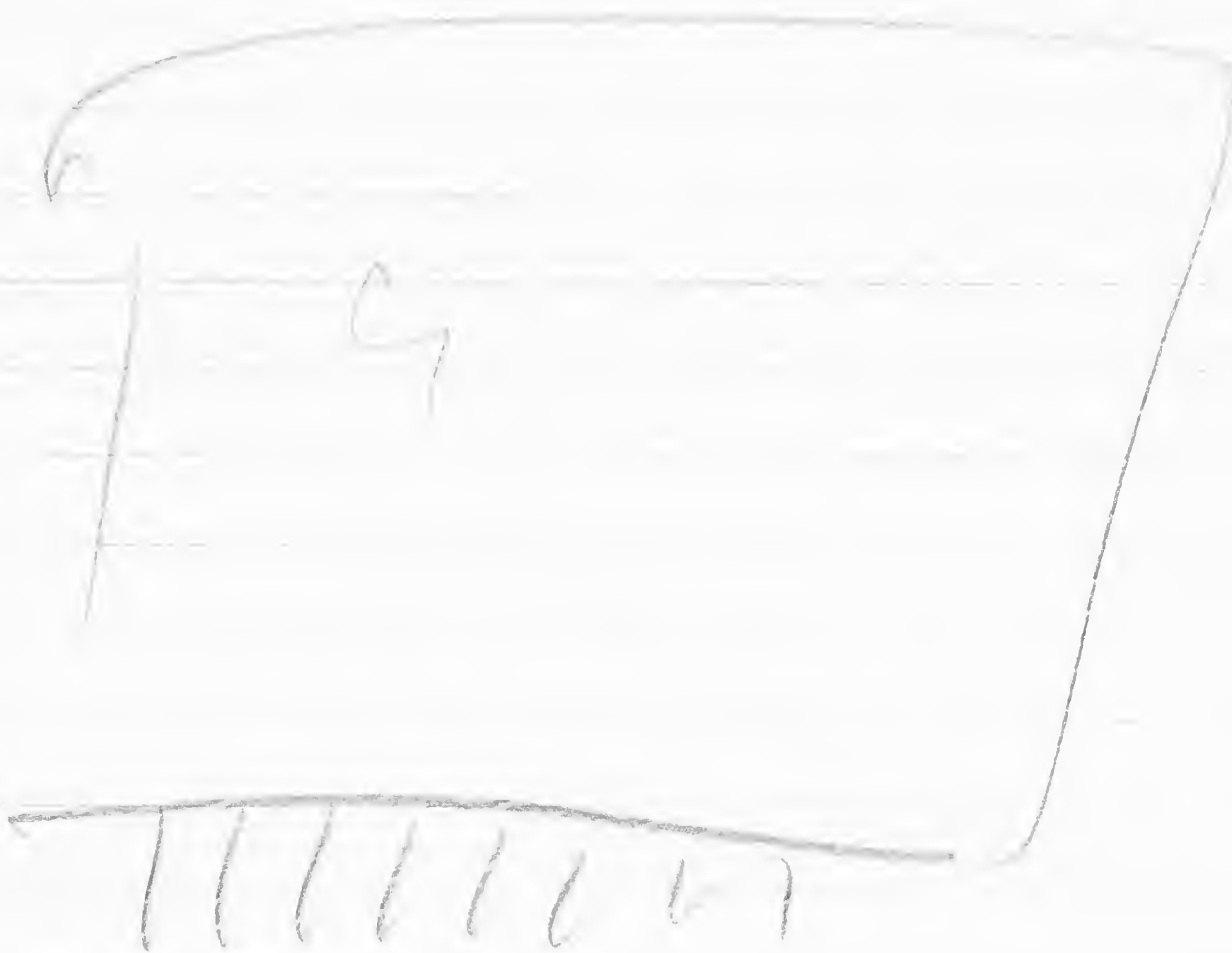
A few of the Pigeon Island raninid  
crab larvae. Their claws are characteristic of the <sup>ones</sup>



~~start his sentence~~

~~Mr. Bredin and his brother-in-law, Mr.  
Ernest~~

Family to which they belong. The  
~~scale is of. The scale is divided~~  
~~into millimeters.~~



The divisions  
of the scale  
are each  
one mm.



(For editorial note?) (III)

These expeditions are organized for the purpose of learning more about the life of the sea around us to borrow a phrase from Rachel Carson's late best seller in kind manner of life, abundance, and distribution, and as important to sound out and enhance sound out and complete the study and reference collection to the U.S. National Museum.

One must needs know the name of any ~~animal~~ <sup>organism</sup> and ~~place~~ to be able to run down the ~~existing~~ <sup>existing</sup> information regarding it. For only with an accurate scientificall determined name will any one know to what organism you may be referring to, or to search literature

of the indexes thereof, is one  
able to run down the exact  
information regarding it.

And for these ends <sup>such</sup> reference  
~~collection~~ of the animal & parts  
are essential for ~~comparative~~  
~~studies of variation~~ ~~etc~~  
~~as standards with which~~  
~~to compare, or to ascertain~~ ~~with~~  
by means of which the  
identification is facilitated  
collections in which also are  
preserved the ~~representative~~ specimens ~~and the~~  
verification of the names of  
organisms ~~which~~ ~~which~~ ~~which~~  
~~a significant discovery~~ ~~has~~  
information has been derived  
or upon which ~~scarcely~~  
discovered ~~or~~  
or ~~from the~~ study of which so  
important scientific discoveries  
have been made.



So much for the why fore <sup>& the ~~value~~ <sup>value</sup> V</sup>  
~~the~~ expedition of this sort ~~and~~  
~~and the value.~~

The results in specimens  
counts alone ~~to take to a~~  
~~are~~ ~~are~~ are impressive  
in their way.

Many of the ~~And of specimens~~  
~~the specimens themselves~~ <sup>are</sup>  
often objects of beauty and  
aesthetic interest, and is  
~~often~~ ~~much~~ <sup>much</sup> ~~the~~  
~~the~~ ~~yield~~ ~~new~~ and hitherto

unknown scientific information  
(facts)

{ The Barbuda Cave Shrimp  
{ Carinorina mosquitoes  
{ Anemone shrimp

= ~~Vasum~~

Musica.

color picture

~~Of this nature~~  
So much for the



marine biological expedition <sup>(I)</sup>  
such as I have had <sup>experience</sup>  
~~to participate in~~ <sup>in my life time</sup> ~~over~~ <sup>past half century</sup> can be, and  
one indeed the most fascinating  
of ~~the~~ pursuits in which one can en-  
gage (a man can follow  
engage).

It has been my good fortune  
to go to sea in the <sup>last</sup> of  
marine life, <sup>with in a few years</sup> almost from the  
day of my graduation from high  
school to the Bureau of Fisheries  
St. Albans, <sup>long since</sup> ~~long since~~ <sup>most</sup> ~~best~~ <sup>departed</sup>  
except by the older generation of  
biologists and fishery experts  
down to the <sup>St. Albans</sup> <sup>Bredin</sup> Caribbean  
expeditions of the <sup>past few years</sup> ~~past few~~  
years. The Lesser Antilles  
Seaward, and Windward Islands  
the British and American <sup>and</sup>  
virginis, (1956, 58, 59) and  
this very last spring to

~~Del~~

11

East Coast of Yucatan, the  
~~islands~~ of Las Mujeres and  
Cozumel.



Pictures wanted:

Invertebrates:

starfish

sponges

anemones

crabs.

Fish of interest

jelly fish / float by

Yacatan → Insects

Group picture?

Jack's arm.

Maya Buildings

Tulum

View to sea

Chicken Itza

Native hut

Temple of Warriors + Thousand columns

Ball court (2 pictures or 3

Castillo

Caracol

→ Relaxing in evening on hotel porch  
Caracol through arch.

Uxmal

Temple of Musician

Nunnery

Palace of Governor

Dove cotes

Mangroves

Of vessel } Blue Goose

Get

get 5x7

ascidians

shells.

insects see Jack

Packing specimens

sorting

seining

dip net

rock cracking.

Bottle racks.

Dow net

dredge

Mayan Types  
Road side homes built in  
characteristic styles wattle and  
mud, minus windows but with  
a door ~~door~~ and a ft.

Two ~~little~~ girls on way to market

Two mothers in ~~the~~ typical garb  
carrying home the ground maize  
(cornmeal) as usual on their heads.  
~~Cornmeal~~

When Maya temples were builded  
the Mayas had neither the wheel  
nor draft animals it was all

head work, and Morley writes  
when they were <sup>restoring</sup> rebuilding  
the laborers as native <sup>"headwork"</sup> help  
~~would~~ transported as much as  
a 200 lb block of stone! just  
as in olden they must have in  
olden times.



Algae, like the sponges, form large festoons of growth around  
/ <sup>mangrove</sup> prop roots.

Algae, like the sponges festoon <sup>mangrove</sup> ~~the~~ prop roots

The branching prop roots / <sup>of the mangrove</sup> give greater anchorage to the tree.

Large numbers of dead trees can be seen in this view of the Ascension Bay mangrove swamp. They may have been killed by a hurricane that stripped the trees and flooded the area. Dr. Daiber considers the Ascension Bay mangrove to be in an old age stage as there are few if any seedlings along its border; instead, mature and dead trees form the front of the swamp



View north along the coast from the Castilla at Tulum

View north along the coast from the Castilla at Tulum

Four members of the expedition party on the porch at the Mayaland Hotel Chichen Itza [Note: In the original kodachrome slide the Caracol showed faintly through the arch. Would it be possible to combine this and the next slide of the Caracol at twilight in one reproduction?] J

The Tulum Castillo

Looking down the stairway of the Castillo at Tulum. Dr. Clarke with insect net in background, caretaker of temple in foreground

Family and home of ~~Mr~~ caretaker at Tulum; characteristic native house of palm thatch

Tulum caretaker's daughter



⑦ ⑧

The Castillo of Tulum as seen from the sea

Dr Clarke standing by one of the gateways in the wall about Tulum

The Castillo at Tulum from the gateway

The Castillo at Tulum from the gateway

The Castillo at Tulum from the gateway

Boys fishing off the pier at Cozumel when not going to school or swimming off the wrecked ship

// " The San Jorje at Ascension Bay with father and son who came out to visit us and from whom we bought a supply of excellent white-flour native baked bread. These native youngsters learn practical seamanship at an early age. Jib and unshipped bow spirt are lying on fore deck of San Jorje so that it could be tied up closer astern <sup>to the</sup> left one of our dinghies

The San Jorje at Ascension Bay with father and son who came out to visit us and from whom we bought a supply of excellent white flour native baked bread. These native youngsters learn practical seamanship at an early age. Jib and unshipped bow sprit ar lying on fore deck of San Jorje so that it could be tied up closer astern; to left one of our dinghies



9  
Wrecked schooner as aquatic playground San Miguel Cozumel

Typical Maya dwellings on the road to Chicken Itza windowless but  
with doorway fore and aft

Typical Maya dwellings on the road to Chicken Itza windowless but  
with doorway fore and aft

~~Two~~ Maya girls on Chicken Itza road; El Caracol in the background  
really too dim to mention

Caretaker at Tulum to right assistant left

Waves driving against the Cozumel pier during the bonanza of April 1960, and schooner wrecked by

Waves driving against the pier at San Miguel Cozumel at the onset of the "bonanza" of April 4, 1960. To left schooner driven on-shore by an earlier bonanza

Emmet Gowen and Tony Halik heading south for a safer haven at the onset of the April 4, 1960 "Bonanza"

Wrecked schooner as aquatic playground San Miguel, Cozumel



11  
Dr. Clarke with forceps collecting beach fleas (amphipods, the white specks) that have taken refuge on his trousers from beach debris thrown in the water of the lagoon at the north end of Cozumel

Dr. Clarke gathering up beach flotsam to throw in the water, lagoon at north end of Cozumel

Dr. Rehder and Mikael of Cozumel who volunteered his assistance gathering mollucks from the tidepools near San Miguel, Cozumel

Dr. Clarke chasing insects on the beach at Tancah, Quintan Roo

Dr. Clarke sorting and pinning his evenings catch of micros. If not properly cared for while the specimens are fresh they ~~will not come through~~ <sup>(will not come through)</sup> in condition for later critical study. One of the painstaking tasks that falls the lot of a micro hunter. In the course of the cruise he pinned up in insect boxes not less than specimens of these tiny moths.

One of the hazards of collecting in the brush ashore — more than a touch ~~of~~ <sup>from</sup> a relative of poison ivy ~~that~~ occurs on shore in Quintana Roo. This picture was taken after Dr. Clarke was over the worst of the attack both swelling blistering and inflammation had subsided to a very great extent.

Dr. Clarke with forceps collecting beach fleas (amphipods, the white specks) that have taken refuge on his trousers from beach debris thrown in the water of the lagoon at the north end of Cozumel.



Loggerhead sponge sectioned by the late Dr. A. S. Pearse at the Dry Tortugas, Florida, showing some of the many shrimps inhabiting its canals

El Caracol at twilight from Mayaland Hotel porch, Chicken Itza

Dr. Clarke reading the inscription at the base of the monument at San Miguel, Cozumel honoring Andres Quintana Roo ~~for~~ whom the Territory is named

The inscription on the Quintana Roo monument, San Miguel, Cozumel

A micro, Homaledra sabalella This tiny, odd looking moth just in width was described in 1880 after being reared from a larva found on a palmetto in Florida. Although specimens have come to the National Museum from Alabama, Mississippi, Louisiana, and Texas, the specimen here figured is the first record of the species from outside the southern United States, and is new to the Mexican fauna.

One of Dr. Bousfield's loggerhead sponges being hoisted aboard at Isla Mujeres

One of Dr. Bousfield's logger head sponges being hoisted aboard at Isla Mujeres



The sea anemones from the reef-flats of Ascension Bay with tentacles extended.

Court yard or quadrangle of the Nunnery at Uxmal

The great (and steep) stairway of the Temple of the Magician at Uxmal

Mr. Bredin, Felipe Castillo, our guide, Mr. May, and Dr. Rehder in the background standing at the base of the Temple of the Magician, Uxmal

A streak or band of the little thimble jelley-fish Linchue drifting by our vessel.

An aquarium shot mature male Linuche distinguished by the brown gonads from the female of the species which has slate colored gonads.

Mature female Linuche with slate colored gonads.

One of the delicate purple jelley-fish found swimming <sup>among</sup> ~~in~~ the Ascension Bay thimble jelly-fish, Linuche



This little tuberculated crab, was discovered in a cavity in a coral formation that was being cracked up for the invertebrates living in its numerous intertices and holes. Cracking up reef corals is one of the most rewarding ways of obtaining specimens in quantity representative of many groups of marine invertebrates.

Scarlet ascidians growing in clumps on mangrove prop roots, Ascension Bay.

A red sponge upper left growing on <sup>a</sup> mangrove root in Ascension Bay. Below the sponge is a spider crab, and below this in turn is a small white-spotted fish, from the head ~~on~~ the left curving around to the tail on the right, other sponges and hydroids make up most of the growth here visible. To the right of the photograph is the downward growing tip of a mangrove root.

The jelly fish swarming in Ascension Bay recalled a similar phenomenon that had not been seen or recorded before we witnessed it, or observed since, so far as I have been able to learn - the swarming of the megalops larvae of a raninid crab, by millions it seemed.

Before sun-up on the morning of April 19 56 we went ashore at Pigeon Island off St. Lucia to watch the natives of St. Lucia bring off a great seine haul but as we were pulling in to the beach we noticed that the sea was alive with tiny red creatures, half dozen to every cubic, or square foot of water. When we stepped on the beach we found a thick windrow, up and down the beach as far as we could see in several "waves" or bands left by the receding tide. So red were they that they contrasted conspicuously with the golden yellow beach. One could scoop them up by quart with no great effort. So far it has only been possible to determine the family of crabs to which they belong and until adults can be found in the area, or not too far away, these little crablets - megalopa - will remain an enigma. Only in a color print is their actual abundance on the Pigeon Island beach that day demonstrable.

A few of the Pigeon Island raninid crab larvae. Their claws are characteristic of the family to which they belong. The divisions of the scale are spaced a millimeter apart.



## THE GREAT BALL COURT OF CHICHEN ITZA

The Great Ball Court from the west, <sup>at the</sup> ~~left~~, the larger of the two temples at opposite ends of the court. The ~~so~~uth end of the east wall of the playing field can be seen beyond the end of the west wall which is surmounted by the temple of the Jaguars to which the stairway ascends. At its foot is the Temple of the Tigers, and to the right the "platform" of the Eagles

The Great Hall Court looking from the top of the west wall in front of the Temple of the Jaguars toward the "diagonal" at the north end of the court. (e also the Temple of the Seated Man)



hall paintings (from) Temple  
of Jaguans, Lichen etc  
for Cover

Get picture of fishing  
p. 912 Vol. II espandres de mex  
Antig



Large numbers of dead trees can be seen in this view of the Ascension Bay mangrove swamp. They may have been killed by a hurricane that stripped the trees and flooded the area. Dr. Daiber considers the Ascension Bay mangrove to be in an old age stage as there are few if any seedlings along its border; instead, mature and dead trees form the front of the swamp

Algae, like the sponges, form large festoons of growth around  
/ mangrove  
prop roots.

The branching prop roots / of the mangrove  
give greater anchorage to the tree.



~~8~~ (127 F) FRT + 40 hours

42/35  
34  
1.01

1.01 each

~~60~~ M<sub>2</sub> Bulbs @ 10¢ ea - ~~6.00~~  
60 6.00

Bus Manda to  
Prozesso 3<sup>00</sup> pesos,

Out to Ward. 4<sup>00</sup>



10 lb rope \$7.00 U.S.

---

⑥

Jack April 25 20 + 6

Bush Apr 25 81  $\frac{40}{20}$

Daiber Apr. 25 81 pesos

incidental expenses pd Daiber



1  
1  
2  
2  
8  
4

To Miami, Fla.

143 Nite 50  
wds

1.3 0 + 1/3 (50)

1.5 5.16 15

1.71 day 15 wds

⊗ Extra rope bought  
two occasions. only  
one ~~charged~~ on accy



Checked Bobby's  
Camera light  
against meter

Creosoted in  
cellar & over  
need high ladder

Dirt glasses  
got out little  
benches, washed  
off same.

Bobby on walk +  
to stone coop.

Starlings not by gutter

Sunday

June 26

/60

Oh/when/1/die/

D<sup>5</sup>on't/bury/me/at/all

Just/pick<sup>2</sup>le/my<sup>3</sup> bones

in/alcohol/

With<sup>1</sup> a<sup>2</sup> bottle<sup>3</sup> of<sup>4</sup> booze<sup>5</sup>

at<sup>6</sup> my<sup>7</sup> head<sup>8</sup> and<sup>9</sup>

my<sup>10</sup> feet<sup>11</sup>

So<sup>1</sup> my<sup>2</sup> r<sup>3</sup>o<sup>4</sup>pt<sup>5</sup>er<sup>6</sup> old

body<sup>7</sup> be<sup>8</sup> sure<sup>9</sup> to<sup>10</sup> feed<sup>11</sup>

When<sup>1</sup> I<sup>2</sup> go<sup>3</sup> out<sup>4</sup> for<sup>5</sup>

shrimps<sup>6</sup> and<sup>7</sup> crabs<sup>8</sup>

I<sup>1</sup> gather<sup>2</sup> in<sup>3</sup> also<sup>4</sup>

fish<sup>5</sup> and<sup>6</sup>



1153-6<sup>15</sup>

---

816 Bdway

936 ll w

699 Bd w.

~~III~~ 2, 3, 1, 3, 15, 18, ~~2~~  
 II 18, 3, 3, 34, 32, 5, 6, 12, 8  
 I 18, 19, 16, 17, 14, 3, ~~19~~  
~~3, 5, 2, 2~~

(4) Ben  
 Rehder  
 June 20/60  
 72

~~IV~~ ~~3, 2, 3, 5, 1, 2, 11, 14, 13~~  
 I 2, 3, 1, 13, 4, 9, 8, 30  
 (10)  
 (6)  
 (7)

43  
 355  
 18  
 18

I 1, 8, 9, 10, 11, 14  
 IV 2, 12, 15  
 I A 3, 5, 11, 12, 14, 36  
 (7) 37

VII 2, 8, 9, 10  
 VI 14  
 V 4, 9  
 III 6



$$\begin{array}{r}
 13 \overline{) 37} \\
 \underline{26} \phantom{0} \\
 11 \phantom{0} \\
 \underline{10} \phantom{0} \\
 10 \phantom{0} \\
 \underline{10} \phantom{0} \\
 0
 \end{array}$$

Constructed a  
tube 0.008 of  
a day a-T in  
481 years.  
synodical.

Constructing  
Tables of  
possible eclipses  
of sun

---

---

Vigesimal system



Amer. Mus. Nat. Hist.  
Guide Leaflet Series No 88

---

Artists and Craftsmen in  
Ancient Central America

---

by George C. Vaillant, 1935

---

1 | 80 x 10 |

25 x 10?

Ball court  
temples

11 5 x 1  
16 32 64 96 80

5 | 10 | 40 | 80 | 20 |

(Over)



Sur Padil

The Ancient Maya  
Murder

Villa Rojas, Alamo  
Carnegie Inst

Publ. - 559  
The Maya of east  
Central P.R. 1945



Andres Quintana

Roo

~~Felix Puerto Carrillo~~

Felipe Carrillo Puerto

d. 1924

F 1376

C 29

---

Castillo Puerto, José

... A la luz del re-  
lámengo, ensaya

de biographia sub-  
jetiva de Felipe

Carrillo Puerto

Mex. 1934



Z 1427 Gomez Ugarte

Q 766 (Elena

Bibliographia sumaria  
de territorio de Quintana  
Roo. (1787-1851

142p. 22 1/2 cm. Mex. D.A.P.P. 1937

F 1333

• 95

Quintana Roo

album maglaphico

1-

1936

Gabriel Mex. D.F.  
Ar. Mendoz Editor



Pacheco Cruz, Santiago  
F 1376

P 12 / Recuerdos de la  
propaganda constitucional  
en Yucatán.

Merida (Mexico) 1953

1945: Villa R. Alfonso Carnegie Pub. 559 \* civilization  
Quintana Roo of secondary importance in Maya

Tulum wall 3m. high x 6m thick

5 passage ways thru side opp. water. 385.8m long  
wall. side walls shorter total = 721.2 m.

stairway to Castillo 9.1 m. wide 7.6 m. high.

one style = date = 564 A.D. (Coba. 534-711 AD)

Pirates (1642) pirates made Belize + hdqtrs

Balacoor 1846  
great trade center

Pirates Ascension Bay

1642

1686

50 leagues of dense jungle  
made surprise attack on Tihozuco

Tixacalcupul

1753 planned to land at Ascension Bay.

1912 Mexican revolution overthrown. Portiro Diaz

1925 General May "Chicle

Condition had till 1934.

Channing Bradd + Frost. F.J.T.

The American Egypt:  
a record of travel in Yucatan  
N.Y. 1909

The Maya of East Central  
Quintana Roo 1945.



1872

Chicken

Itza

(One of my few  
wh. name is  
ancient)

"Had a long recorded  
history than any other city,  
ancient or modern, in all America"

Chichén Itzá

mouth of well (or cenote) at the  
Itza (chi: mouth chen: well)

Electric pumps have largely  
taken over (place of wind  
driven ones)

Memoirs, Peabody Museum  
of Archaeology + Ethnology.

Puxand Univ.

Vols. XI + XII

Cambridge 1957

Alfred M. Bazzel

1933 Chichén Itza and the Cenotes  
of Sacrifice  
The Lost Empires of the  
Itzaes and Mayas  
Theodore A. Willard

Arthur H. Clark Co  
Glendale Cal. 81933

~~Alpheus armatus~~  
Hurlin to found a second species  
(or associated) belonging to  
the same family but a different  
Thor paschalis. ~~Thor~~ ~~Thor~~  
was not along with ~~the~~ him  
anemone ~~Alpheus~~ armatus  
was present here, and several  
delicate, hamper-like and hand-  
to-see mysid shrimps as well.

The island yet unvisited  
The way to continue on to  
islands ~~we had not yet visited~~ ~~and in~~  
particular to witness the jagged  
fishery for spring lobsters in  
the lagoon at Barbuda, took  
us here on the fourth of April.  
Though blessed with a large  
almost wholly landlocked  
lagoon Barbuda is relatively  
inaccessible because of the





lobsters (*Panulirus argus*). ~~This~~  
circumstance ~~and~~ coupled with  
the relatively shallow water made  
it possible for them to prosecute  
a ~~and~~ unique fishery for this  
much sought after and much  
eaten and relished crustacean.  
I do not know where else a  
faggot fishery ~~for~~ for spiny  
lobsters is carried on or  
how it came about that the  
~~Bahian~~ natives here resorted  
to it. ~~Among the~~ Off the

eastern shore of the lagoon, the  
natives build up from the bottom  
in about a half to three quarters  
of a fathom of water

a pile of ~~water-logged~~ brush, limbs  
and trunks <sup>+ stumps</sup> of small trees. This  
pile of faggots is about  $4\frac{1}{2}$



feet high and roughly six feet <sup>261</sup>  
~~wide~~ <sup>see 61a</sup> diameter. Left undisturbed

for ~~several~~ weeks it becomes  
populated with some shiny  
cobblers ~~on the~~ <sup>shape as</sup> Then secured

by surrounding the <sup>brush</sup> pile of ~~brush~~  
~~water logged brush~~ with a

net a seine, and after losing  
~~over~~ the water logged wood,

~~faggots~~ over the side of the net  
to form a new pile of faggots

just outside it. Then  
the net is pursed together

at the bottom, and the  
catch dumped into the bottom

of the fisherman's boat in  
which they travel the lagoon

fish, and tend their faggot  
piles on occasion the three

men who demonstrated this  
fishery for us <sup>Maintained</sup> ~~were~~ <sup>about</sup>  
seven of these faggot boats. There

gill  
net  
fishing

to net 26  
crabs  
of 26 crabs

26 crabs  
26 crabs  
26 crabs

algae 229190

1960  
Yucatán

Stations

- |               |                 |
|---------------|-----------------|
| 1. 93-60      | 28. 29a-60      |
| 2. 95-60      | 29. 80-60       |
| 3. 97a-60     | 30. 67-60       |
| 4. 106-60     | 31. 26-60       |
| 5. 83-60      | 32. 3-60        |
| 6. 85-60      | 33. 28-60       |
| 7. 68-60      | 34. 37-60       |
| 8. 77-60      | 35. 82-60       |
| 9. 109-60     | 40. No Sta. - 2 |
| 10. 72-60     |                 |
| 11. 105-60    |                 |
| 12. 52-60     |                 |
| 13. 53-60 - 2 |                 |
| 14. 47x-60    |                 |
| 15. 41-60 - 2 |                 |
| 16. 48-60     |                 |
| 17. 47-60     |                 |
| 18. 17-60 - 2 |                 |
| 19. 44-60     |                 |
| 20. 11-60     |                 |
| 21. 9-60      |                 |
| 22. 4-60      |                 |
| 23. 60-60     |                 |
| 24. 5-60      |                 |
| 25. 2-60      |                 |
| 26. 54-60     |                 |
| 27. 51-60     |                 |

44 total



List of contents of 1960 Yucatan  
 crates and 1 foot locker, Smithsonian  
 Breeding Expedition

#1 - 16 gal <sup>in chest</sup> 23 1/2 x 20 x 18 1/2 <sup>approx</sup> 150 lbs 5.1 cu ft  
 - Preserved Nat. Hist. spec. <sup>more mixture of</sup> <sup>uniform alcohol</sup> formal

#2 - chest 25 x 22 x 18 1/2 120 lb 5.9  
 8 1/2 gal jars pres. nat. hist. spec. and  
 dredge line, <sup>+</sup> face marks, misc small gear

#3 chest 25 x 21 x 18 110 lb 5.5  
 "aquarium," look box and  
 misc small gear

#4 16 gal tank <sup>in chest</sup> 23 1/2 x 19 x 18 120 lb 4.7  
 personal clothing, books, paper  
 10 - 30-watt light bulbs  
 12 dry batteries

#5 16 gal tank <sup>in chest</sup> 23 1/2 x 19 x 18 150 lb 4.7  
 pres. nat. hist. spec.

~~8. N.H. 5 in chest~~ ~~moth stakes~~

~~30 x 18 x 12~~

#6 16 gal tank 24 1/2 x 18 x 17 1/2 120 lb 4.5  
 p.n.h.s. ~~(fish) in form.~~

770

30.4

#7 16-gal <sup>drum</sup> 24½ x 18 x 17½ 150 lb 4.5  
 g. n. h. s. (~~for~~) ~~etc.~~ + 2 sponges

#8 <sup>Chest</sup> ~~box~~ 25 x 21 x 19 120 lb 5.8  
 Entomological supplies & equipment

#9 <sup>Chest</sup> ~~box~~ 40½ x 22 x 16 160 lb 8.3  
 Heavy collecting gear  
 & six buckets & 1 magnet

#10 8-gal <sup>Tank in chest</sup> 19½ x 19½ x 15 100 lb 3.3  
g. n. h. s. (~~max. insect~~)

#11 8-gal <sup>Tank in chest</sup> 19½ x 19½ x 13 80 lb 2.9  
 misc. small gear & paper

\* 12 <sup>Chest</sup> ~~box~~ 21½ x 19½ x 16 100 lb 3.9  
pres. nat. h. sp. in 2 doz qt. jar

#13 <sup>Chest</sup> ~~box~~ 21½ x 19½ x 16 100 lb 3.9  
g. n. h. s. 2 doz qt. jar

810 32.6



#13 - Chest - <sup>Chest</sup>  $21\frac{1}{2} \times 19\frac{1}{2} \times 16$  100 lb 3.9  
 1.01. 14. 5. 2 doz. grt. jars  
<sup>chest</sup> wt.?

#14 <sup>chest</sup> box  $21\frac{1}{2} \times 19\frac{1}{2} \times 16$  100 lb 3.9  
 as #13

#15 <sup>chest</sup> box  $21\frac{1}{2} \times 19\frac{1}{2} \times 16$  100 3.9  
 as #14

#16 <sup>chest</sup> box  $41 \times 21 \times 20\frac{1}{2}$  150 10.3  
 Entomological collection equipment  
 incl. 3 Coleman lights

#17 <sup>chest</sup> box  $21 \times 17\frac{1}{2} \times 13\frac{1}{2}$  59 2.9  
 2 doz grt jars (empty)  
~~Darker~~

#18 <sup>chest</sup> box  $21 \times 17\frac{1}{2} \times 13\frac{1}{2}$  67 lb 2.9  
 collecting equipment incl.  
 70-ft seine, ~~Darker~~

#19 <sup>chest</sup> box  $21 \times 17\frac{1}{2} \times 13\frac{1}{2}$  67 2.9  
 collecting equipment  
~~Darker~~

540 26.8

#20 crate 35 x 19 1/2 x 19 1/2 250 7.7  
 Dry net. hist. sp. ~~100 yll~~  
 (corals & sea fans)

#21 crate 27 x 23 x 19 1/2 1.001 7.0  
 dredge lines, "look box"  
 minnow trap.

#22. crate 30 x 23 x 22 1/2 80 9.0  
 2 mollusk traps,  
 5 rubber floats, 2 canvas covers  
 5 swim flippers

#23 ~~box~~ box 25 1/2 x 21 x 17 150 5.3  
 Dry net. hist. material

#24 ~~box~~ box 25 1/2 x 21 x 17 150 5.3  
 Dry net hist spec

#25 ~~trunk~~ foot locker 32 x 17 1/2 x 14 150 4.5  
 Personal clothing, books, papers  
 & camera equipment

~~Possibly 1 bundle canvas for cover~~  
 430 38.8

Total



Total cubic footage 30.4

32.6

26.8

38.8

128.6 cu. feet

Total est. weight 770

810

540

730

2850 lbs.

2018

A piece of lined paper with horizontal blue lines. There are two large, dark, handwritten scribbles. One is in the upper right quadrant, and the other is in the lower left quadrant. They appear to be random ink marks or perhaps stylized, illegible characters.

7

$$\begin{array}{r} 30 \\ \times 18 \\ \hline 240 \\ 1800 \\ \hline 5400 \end{array}$$



## Notes on collectors

Sta 95-60 - 8 specimens of a Sepiid seen by  
Boufford, Daiber, & Haynes. very  
swift tried to catch them.

Bahia Ascension Horse Conchs - *Fasciolaria gigantea*  
taken at anchorage in 15 feet by  
Hal Haynes (2 specimens.)  
Dead specimens at Allen Pt. Light.

Yucatan  
1960

0961



April 12 at 9:30 AM - move to new anchorage to eastward, Ascension Bay  
 " 20 2:00 AM Leave anchorage at Bahia Ascension  
 " " 10:00 AM Leave to opposite Tancah  
 " " 3:45 PM Leave for Cozumel Id.  
 " " 9:50 PM Anchor off pier, San Miguel, Cozumel Id.  
 " 21 11:30 AM Left dock at San Miguel, Cozumel  
 " " 3:00 PM Arrived at anchorage S. end Cozumel Id.  
 " 22 2:10 PM Left anchorage at S. end Cozumel Id.  
 " " 4:45 P.M. Arrived at anchorage off pier, San Miguel, Cozumel  
 " 24 11:55 AM Left on plane for Merida, Yucatan  
 " " 1:05 PM Arrived airport, Merida, "  
 " 28 12:03 PM Left airport, Merida, Yucatan  
 " 28 1:13 PM Arrived airport, Cozumel Id.  
 " 30 3:30 PM Left Cozumel Id., Q.R.  
 May 3 5:45 PM Anchored off Georgetown, Grand Cayman  
 " 7 6:45 AM Left airport, ~~Cozumel Id.~~ Grand Cayman  
 " " 9:05 AM Arrived airport, Miami, Fla

1960  
Kearney



	Letters	Post cards
U.S. Canad Mex 1st Air	4 <sup>c</sup> 74	34 5-4
All other countries First Class	84 1st oz 5 each add.	54
Air: Cuba S + Cent Amer + W.I.	104 1/2	104 ea
Europe + N. Africa	15 half oz	10 "
Other place Africa Asia + Pacific	254 half oz	10

3116 P.S.

Fe. 3-7836



Slides shown by  
Shuster had  
shown well

---

Blue basket star

---

Schmitt with Nidel  
say at Megada  
looking at bottle-

---

Drift wood on  
beach at Megada  
like unique painting

---

Land snails too

---

Get caves with Nidel  
walking

---

Schmitt sorting bottles

per ~~week~~  
 Charter ~~6 weeks~~  
 @ 1050.00

6 weeks  
 6300

5 weeks  
 5250

Subsistence food  
 misc charges

@ ~~500~~  
 bet 475 and 500 ~~475~~

~~2700~~  
 3000

~~2250~~  
 2500

Wash. N.Y. or Phila. to  
 Air fare o.w. Trinidad  
 1st. 5 @ 205

1025

1025

Air fare o.w. Antigua  
 to Wash. 153  
 5 @

~~765~~

765

500

? Desmond @ 100(?)

600

2500

500

Misc. + incidental  
 includes ~~stamps~~ long  
 line, Antigua, to Trinidad  
 Bredin

Balance in Fund

12,190

2400

9,790

10,540

2,400

8,140

2700 of which  
 I would like to  
 hold 300 in reserve  
 for emergencies



~~Six weeks charter~~

Desmond

Dr. William

full name  
address

5 weeks

delivered in Trinidad

(1) Amos (VS) (2) John

(3) Desmond = Schmitt

(4) Bredin (VS) May

(5) Coutress

Delaware

{ Moreno }

{ Shuster Day to day  
account; Log.  
make carbon copy  
Keep Sta. Record. }

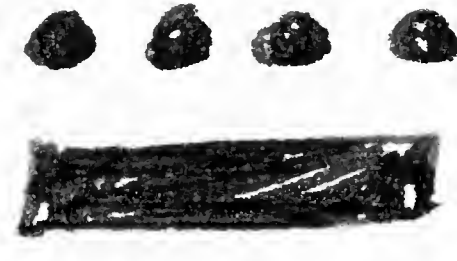
Rehder John notes

Clarke = Map = chart of expd.

Galody



The ancient Maya  
Sylvanus Griswold  
Morley ~~Morley~~  
Stanford Univ Press, 1946

In right margin  
in line with 1st line of  
text the Chapter  
number is given (it  
so happens in this volume  
in the Mayan number system  
from one • to  for 9)  
with page number  
immediately below chap  
number. It is a  
~~grand device~~ of  
great convenience

~~the~~ and one that I  
wish had been adopted  
here. — certainly would  
facilitate checking back  
and forth which is so  
~~the~~ inescapable in so  
well annotated a biography

---



11s. London News Mustique

Jan. 16, 1971: p. 8

"Liner on fire [photo]:  
The French ~~et~~ cruise  
liner Anhilles burst into  
flames after running  
aground off the Caribbean  
island of Mustique on  
January 9. The £6 mil-  
lion liner struck a sunken  
reef, but none of the  
675 passenger and crew  
was reported seriously  
hurt. The Queen Elizabeth  
II took survivors from  
Mustique to Barbados.  
An official inquiry has  
opened into the disaster.

Borrichia

arborescens

ped.

White bush

SW fish  
poison

Barbuda

Indication of



John  
Jack  
Dad

Harwood  
Coffee  
Coffee

Order  
shot up  
per jam

CAPTAIN JOSE PÉREZ M.

PILOTIA MAYOR



5  
151  
151  
302  
40

3.50

7 12.50

87.50

121  
160  
281



11 Mar 25  
Beer 11.00

Wire 28.75

Buss ticket 6.00

Postage 30.00

Lunch 100.00

Bike 111  
Pump 3.00  
243.00

Vack 36  
~~1,32.50~~

100 Hotel La Jada  
80 6.00

over

Drug Store  
Mojers

Casa Ruell  
Domestic Commodity  
Bla Mujeres, 2. Pds.  
Postage 11.50 peso

10 Dishes 20 peso

2nd day in ~~Mojers~~  
Mojers

~~Cuzco Hotel Caribe~~

Apr. 3 Puzi 20.00

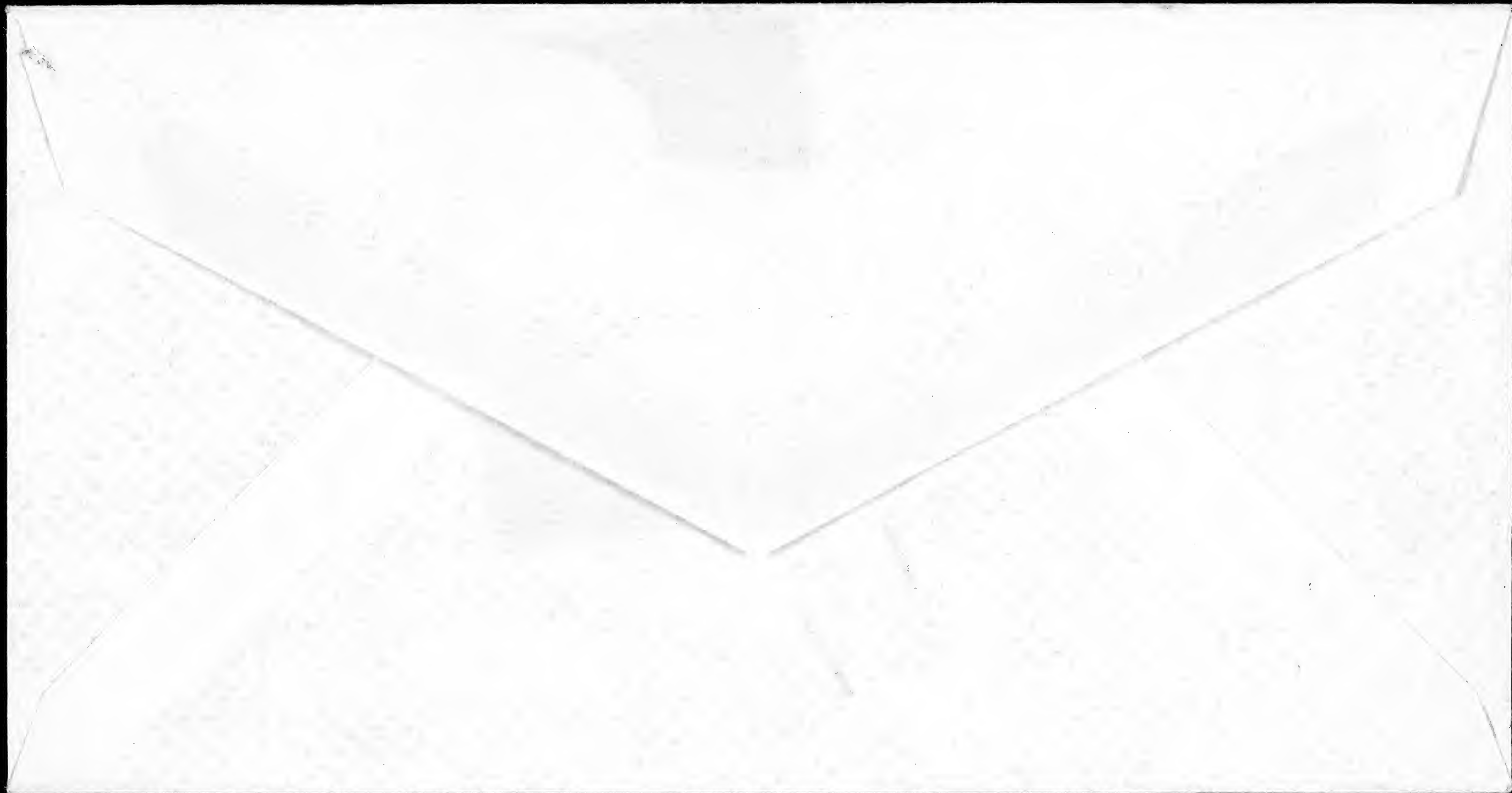
Hummer 136.00

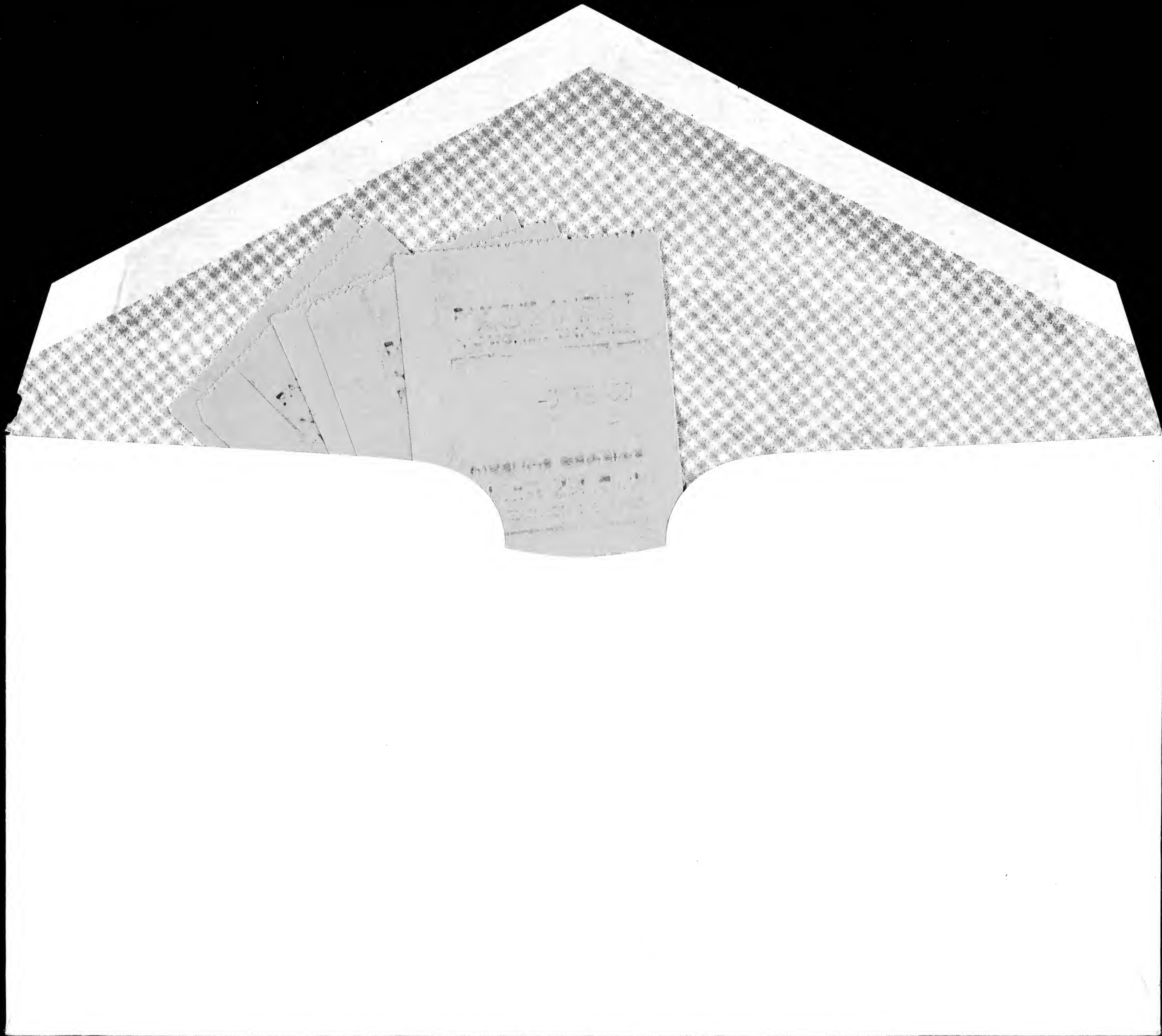
156.00

April - 3d

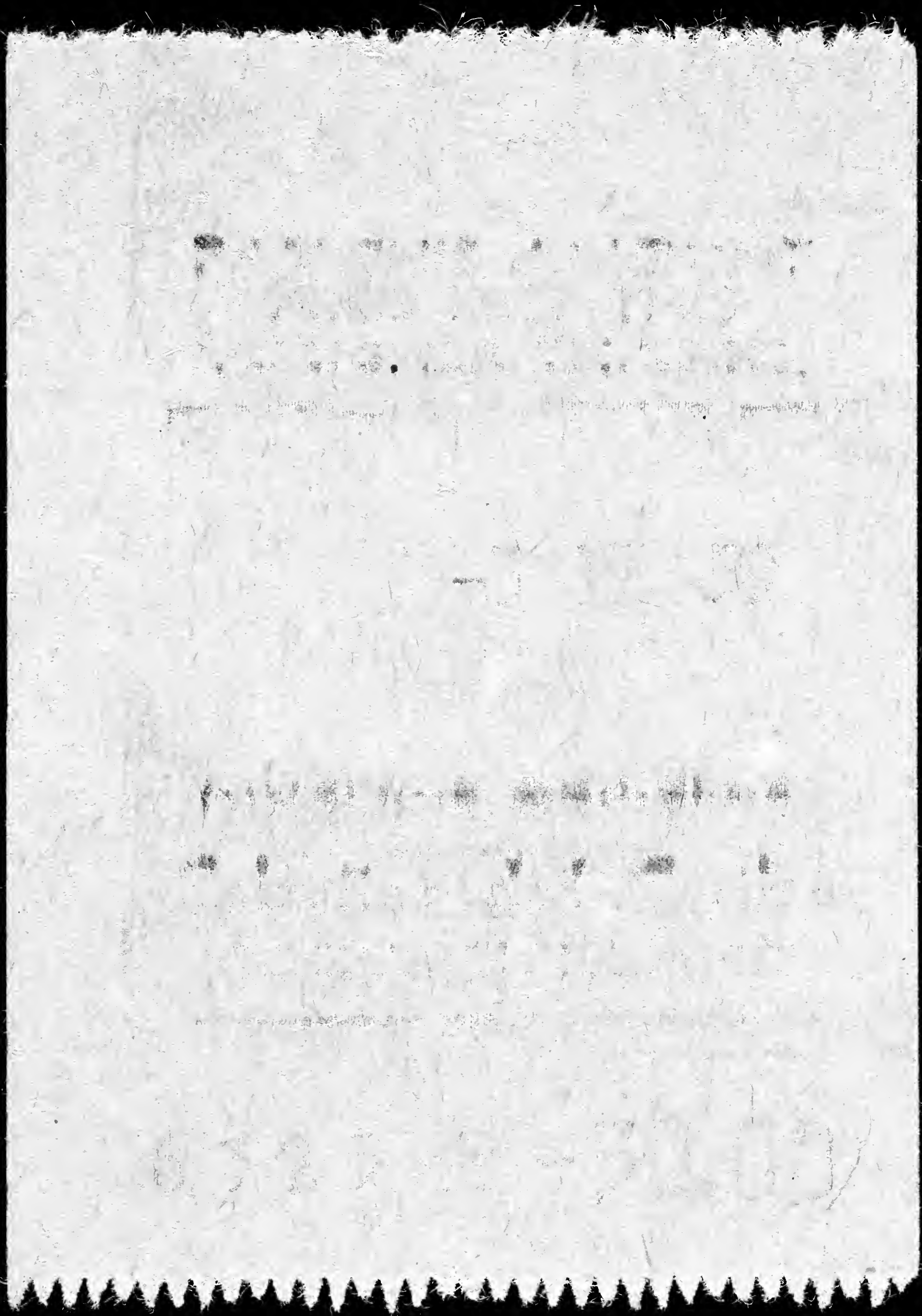
1960











THE UNIVERSITY OF CHICAGO

LIBRARY

520 EAST 58TH STREET

CHICAGO, ILL. 60637

3 12 59

THE UNIVERSITY OF CHICAGO

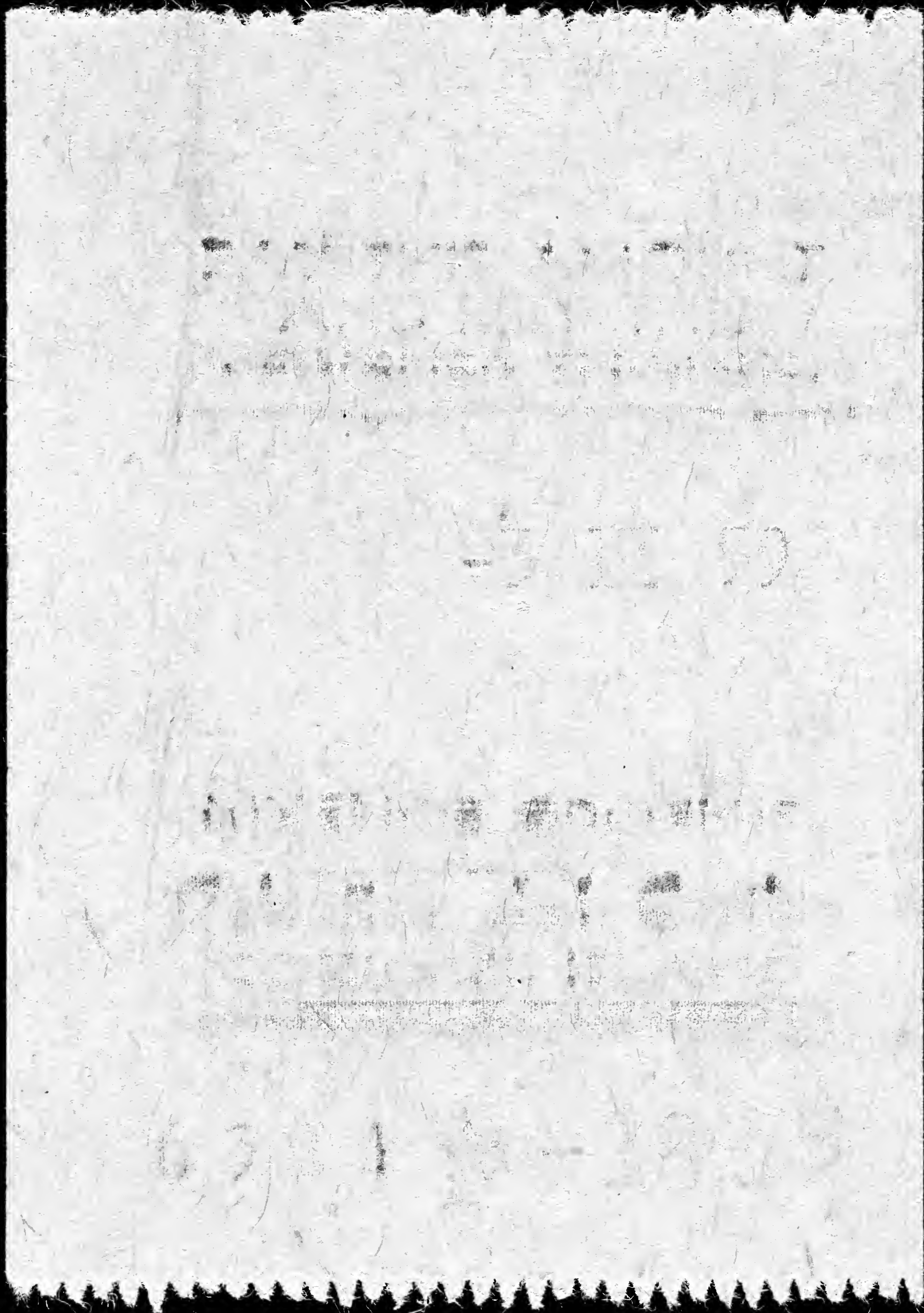
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THE UNIVERSITY OF CHICAGO

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521

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THE  
FEDERAL  
BUREAU OF  
INVESTIGATION  
UNITED STATES DEPARTMENT OF JUSTICE

5 11 50

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 11-11-80 BY 6032

5 11 50

March 26, 1960.

Received this day from  
Waldo L. Schmitt, in U.S.  
currency the sum of one  
hundred dollars (\$100.00),



20 5's

50<sup>5</sup>

---

97 } Capt Burnell  
96 }  
Cashed 250  
95 }  
Check R/B  
day too

---

200<sup>5</sup> 278 + 279  
9<sup>5</sup> at bank 200 in  
one's; and 50<sup>5</sup> in  
55 = #p 698

---



DEPOSITED IN

# RIVERSIDE BANK

MIAMI, FLORIDA

— PLEASE DO NOT WRITE IN THIS SPACE —

DATE

In receiving items for deposit or collection, this bank acts only as depositor's collecting agent and assumes no responsibility beyond the exercise of due care. All items are credited subject to final payment in cash or solvent credits. This bank will not be liable for default or negligence of its duly selected correspondents nor for losses in transit, and each correspondent so selected shall not be liable except for its own negligence. This bank or its correspondents may send items, directly or indirectly to any bank including the payer, and accept its draft or credit as conditional payment in lieu of cash; it may charge back any item at any time before final payment, whether returned or not; and neither this bank nor its correspondents shall be liable for any delay occasioned by the bookkeeping system or rules of such payer bank or any clearing house association. Items drawn upon or payable at this bank will be credited conditionally and if found not good at the time all items received on the day of deposit have been posted, but not later than the end of the following business day, may then be charged back. Items received after banking hours will be considered as received on the following business day. Payments of checks against this deposit may be refused if such checks are presented on same day this deposit is made.

DENNISON & SONS, MIAMI-NEW YORK	DOLLARS	CENTS
CURRENCY →		
COIN →		
LIST CHECKS BELOW		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
TOTAL →		

FOR THE ACCOUNT NAMED BELOW

ADDRESS

Glenn Shepard <sup>18~~44~~.60</sup> T. 50  
Supply Division  
U.S. National Museum.

Wandered service here  
stuff ~~4s~~ aboard ~~th~~ now in  
Dunks under lock and  
Schmitt. <sup>key</sup>



Franklin

3-4461

---

# Rehder and Schmitt Sea Board Fares

---

phokussik  
romettes

---

1 1 9.69

1 1 9.69

---

23 9.38\*



Dr Harold Rehder  
U.S. National Museum  
Washington 25, D.C.

16. III. 60

Unless Gil meets you take  
taxi to Goose berth ten twelve  
North West North River Drive  
Miami

Schmitt

Schmitt is at  
above address  
or Phone

NE 4-0474

Straight wire  
plus extra word

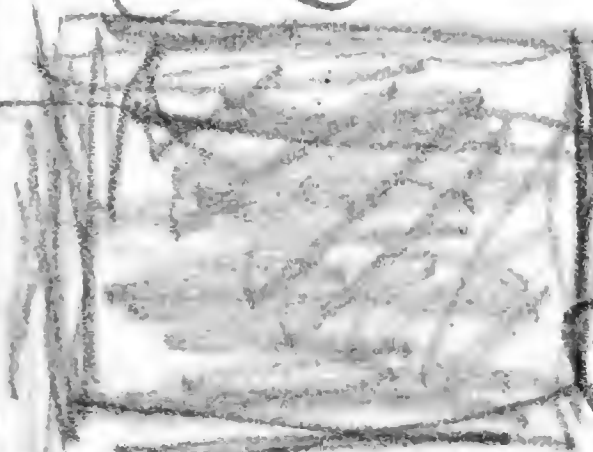
... Sidney Geller Biology <sup>16. III. 60</sup> Branch  
Office of Naval Research  
Navy Dept. Washington 25, D.C.

Write letter

If loan of compressor no  
work out is there an agency  
that can lend us four  
33 cu. ft. aqualung tanks for  
~~seven~~  
seven weeks



Get Alcohol

 Omit

Vel HI

NE 4-1661

1625 NW 20 St.

great Southern

NE 4-7661

colloquial - drop  
for letters

manicure

retails 3 for ball

Royal X Pan 650

813

Captain Tom  
Burnett —————

3080 N.W. 20<sup>th</sup> St.  
Miami, Florida

1960 phone card

31 M - 585-5748

---

P.O. Box 3601, Sd. 83  
Miami, 36, Fla

---

Great Southern <sup>N.E. 4-7/66</sup>  
Trucking Co

1625 N.W. 2<sup>nd</sup> St.

Miami, Florida 11200  
116-1661

---

Chief Supply Division  
U.S. Veterans Hospital  
1100 Anastasia Ave  
Coral Gables, Fla



23 and her

17

---

One Arnold

113

---

3 less

---

32.50  
Oh my

---

March 26

Capt. 200

March 26

282

283

Then 100 for  
anchor when  
he could not get  
Exp. check cashed  
or was it 200  
cash.



This Sw

Burne AT  
to square acct  
around

For Burne

To Capt. 29. IV. 60  
# T 83-495

~~387~~  
380 20 20  
Capt 380 20 20  
30. IV. 60

May 5 Ball pr  
3 shilling

Drinks. 12.00

Stump. <sup>18<sup>5</sup></sup> 2 (U.S)

tips } 2 shilling  
          } 2 shilling

---

4-6 p.m. apt. ice  
cream ~~at bar~~ <sup>apartment</sup>

10 Killings } 5 dishes  
                  } 2 scoops

Daihes Schmitt each dish  
2 dishes each; Harald 1 only  
Mend brief case 100 us

---

Gave man in boat 2 dollars us.  
in Caymans (Geese-  
tann)



Old count house

---

1130

May 4, 1960

Shirt 10 shillings

Typing — 7<sup>00</sup>

Dinner 6<sup>00</sup> Sur 70<sup>00</sup>

Post cards 5 shillings  
change dollar 23  
1<sup>00</sup> dollar ~~23~~ Bush

4 sets Cargman  
2d stamps

Drinks at Bay View  
8 shillings



May 4, '60  
Cat Benger  
~~Hotel~~

3.00 (21.00

domestic  
shilling

Ice cream +

Limade 18.00

~~tip 2.00~~

sh. 20.00

~~Hotel~~ 10.00  
May 4, 1960 Banples  
Banple

34 peso red  
by Dabes for  
200 for  
in merida

---

May 6 25

Cash plus

P. 704/ (50 cash)  
plus 50 + 25 = 75

---



~~the~~ April 29<sup>th</sup><sub>3</sub>

One Cap

10 peso paid  
my taxi man

~~gave this  
to the  
him~~

---

April

~~May~~ 25

back \$ 26  $\frac{64.5}{20}$  check

Bacy 25

To Bondfield 40.00

Summed with  
Kamber <sup>film</sup> 70.50  
In maid ph 10

80.50

telegram girl

1.00

$\frac{81.50}{}$





~~27~~ ~~10~~

Abril 27<sup>th</sup>

---

—

—  
—  
—

May 4

to

June 24



**your tickets**

**SEABOARD**  
**RAILROAD**



# PASSENGER REPRESENTATIVES

## OFFICES IN PRINCIPAL CITIES

Athens, Ga.	414 Southern Mut. Ins. Bldg., Tel. Liberty 6-8948
Atlanta (3), Ga.	67 Luckie St., Tel. Jackson 2-5018
Augusta, Ga.	511 Southern Finance Bldg., Tel. Park 2-4668
Baltimore (2), Md.	5 & 7 So. Calvert St., Lexington 9-4135
Birmingham (3), Ala.	S.A.L. Bldg., 30 South 20th Street, Tel. Alpine 2-5158
Boston (16), Mass.	No. 2 Little Bldg., 80 Boylston St., Tel. Liberty 2-2634
Brunswick, Ga.	Travel Center, 504 "G" St., Tel. Amherst 5-5860
Buffalo (3), N. Y.	205 Lackawanna Terminal, Tel. Wash. 3736
Charleston (35), S. C.	East Bay & Hasell St., Tel. RA-3-0656; RA-2-2191
Charlotte (2), N. C.	228 East 5th St., Tel. Edison 2-8167
Chattanooga (2), Tenn.	1015 James Bldg., Tel. Amherst 6-3758
Chicago (3), Ill.	1460-1461 Marquette Bldg., Tel. State 2-2185
Cincinnati (2), Ohio	1803 Carew Tower, Tel. Main 1-5061
Cleveland (15), Ohio	2037 East 14th St., Tel. Tower 1-6155
Columbia (1), S. C.	36-38 Arcade Bldg., Tel. Alpine 2-8621-22
Columbus, Ga.	200-203 Professional Bldg., Tel. Fairfax 3-2717-8
Detroit (26), Mich.	1207 Lafayette Bldg., Tel. Woodward 2-8404
Durham, N. C.	S.A.L. Bldg., 816 Ramseur St., Tel. 9-2366
Fort Lauderdale, Fla.	407 E. Broward Blvd., Tel. Jackson 2-4751-52
Gainesville, Fla.	1120 E. University Ave., Tel. Franklin 2-1000
Greenville, S. C.	34 South Academy St., Tel. Cedar 2-3422
Havana, Cuba	Dussaq Co., Ltd., S. A. Edificio "Sinclair"
Homestead, Fla.	21 y O, Vedado, Tel. 30-5566
Jacksonville (2), Fla.	Redland Travel Service, 283 S. Krome Ave., Tel. Circle 7-1626
Kansas City (5), Mo.	218 W. Forsyth St., Tel. Elgin 3-1791
Key West, Fla.	1204 Fairfax Bldg., Tel. Victor 2-4747
Kingston, Jamaica	Simone's Tours, 514 Southard St., Tel. Cypress 6-5722
B. W. I.	Martin's Travel Service, Harbour & East Sts., Tel. 5588-89
Lake Wales, Fla.	Walesbilt Hotel, Tel. 2-6831
Louisville (2), Ky.	320 Heyburn Bldg., Tel. Juniper 4-3413
Macon, Ga.	200 Seventh St., Tel. SH 3-7428
Marathon, Fla.	Simone's Tours, U. S. No. 1, Tel. 5478
Memphis (3), Tenn.	922 Exchange Bldg., Tel. JA 6-7067
Miami Beach, Fla.	1553 Washington Ave., Tel. Franklin 1-6611
Miami (32), Fla.	173 E. Flagler St. Tel. Franklin 1-6611
Montgomery (2), Ala.	119 Columbus St., Tel. Amherst 3-4479
Montreal, Canada	1240 Peel St., Tel. University 6-7811
Nashville (3), Tenn.	830 Third Nat'l Bank Bldg., Tel. AL 6-7427
Nassau, Bahamas	Bahamas Tourist Co., Ltd.
New Orleans (12), La.	Shirley Street, Tel. 3181
New York (20), N. Y.	914 Hibernia Bank Bldg., Tel. Jackson 5-7888
Norfolk (10), Va.	12 West 51st St., Tel. Circle 5-7380
Ocala, Fla.	141 Granby St., Tel. Madison 5-5896
Orlando, Fla.	13 Van Buren St., Tel. Marion 2-6702
Palmetto, Fla.	1045 West Amelia Ave., Tel. Garden 4-7194
Petersburg, Va.	901 Ninth Ave., Tel. 33-101
Philadelphia (3), Pa.	Seaboard Passenger Station, Tel. Regent 38251
Pittsburgh (19), Pa.	306 Transportation Center, Tel. Rittenhouse 6-7154
Plant City, Fla.	953 Union Trust Bldg., Tel. Atlantic 1-1945
Portsmouth, Va.	204 East Reynolds St., Tel. 2-3051
Puerto Rico	Seaboard Passenger Station, Tel. Export 7-0797
Raleigh, N. C.	Puerto Rico Tours, Inc., San Juan 15 PR
Richmond, Va.	309 Recinto Sur St., Tel. 3-2860
St. Louis (1), Mo.	922 Insurance Bldg., Tel. Temple 3-2714
St. Petersburg (1), Fla.	708 E. Grace St., Tel. Milton 3-0291
Sarasota, Fla.	OR 3600 W. Broad St., Tel. Elgin 9-6911
Savannah, Ga.	1921 Railway Ex. Bldg., Tel. Main 1-1894
Tallahassee (1), Fla.	415 First Avenue, North, Tel. 7-5168-9
Tampa (2), Fla.	Main & Lemon Streets, Ringling 7-4539
Tulsa, Okla.	7 E. Congress St., Tel. AD 3-7733 & AD 6-3321
Virgin Islands	Seaboard Passenger Station, Tel. 2-4994
Washington (6), D. C.	Hillsboro Hotel Bldg., Tel. 2-8327
West Palm Beach, Fla.	5906 East 26th Place, Temple 5-3130
Wilmington, N. C.	Virgin Island Tours, Inc., St. Thomas, Tel. 517
Winter Haven, Fla.	1625 "K" St., N. W., Tel. National 8-0636
	106 N. Narcissus Ave., Tel. Temple 2-4174
	Seaboard Freight Station, Tel. Roger 21843-4
	Central Arcade, Tel. Cypress 3-6383

## SEABOARD

### RAILROAD

# ASK THE TICKET AGENT FOR A TRAVELERS INSURANCE TICKET

## RATES

\$ .25 per day for  
1 to 5 days  
1.50 for 7 days  
2.00 for 10 days  
2.75 for 15 days  
3.50 for 21 days  
4.50 for 30 days

## COLUMN

1  
\$10,000  
\$10,000  
\$ 5,000  
\$ 30.00  
\$ 15.00

## WORLD WIDE COVERAGE

for accidental death  
for loss of both hands or both feet  
for loss of one hand or foot  
per week for total disability, up to 52 weeks  
per week for partial disability up to 26 weeks

## COLUMN

2  
\$3,000  
\$3,000  
\$1,500  
\$15.00  
\$ 9.00

## RATES

\$ 6.00 for 45 days  
7.50 for 60 days  
10.00 for 90 days  
12.50 for 120 days  
15.00 for 150 days  
17.50 for 180 days

Amounts in Column 1 are payable for accidental injuries sustained while traveling in public conveyances on land or water.  
Amounts in Column 2 are payable if the injuries are sustained elsewhere on land or water, including while riding in or driving a private automobile, also payable in Column 2 if the injuries are sustained while the insured is a passenger in an aircraft operated by a passenger airline on a regularly scheduled passenger trip over an established route.

The general exclusions are those relating to suicide, war, disease, hernia, gas inhalation, skiing, speed contests, professional athletics and certain aircraft hazards. It is non-renewable.

## THE TRAVELERS INSURANCE COMPANIES

HARTFORD, CONNECTICUT

Issue the following forms of insurance: Life, Health, Accident, Liability, Automobile, Steam Boiler, Compensation, Group, Burglary, Plate Glass, Fire, Extended Coverage, Inland and Ocean Marine, Fidelity and Surety Bonds.



NAME Schmitt W.L. ADDRESS \_\_\_\_\_  
GOING \_\_\_\_\_ YOUR TRAIN LEAVES WASH DC AT 2 15 PM DATE 3-15  
RETURNING \_\_\_\_\_ YOUR TRAIN LEAVES \_\_\_\_\_ AT \_\_\_\_\_ M. DATE \_\_\_\_\_

SEAT \_\_\_\_\_

LOWER \_\_\_\_\_

UPPER \_\_\_\_\_

DR. ROOM \_\_\_\_\_

COMP. \_\_\_\_\_

BEDROOM \_\_\_\_\_

ROOMETTE 2

CAR

5/12

RAIL FARE \$ 9752

PULLMAN \$ \_\_\_\_\_

SEAT FARE \$ 2217

TOTAL TAX \$ \_\_\_\_\_

INSURANCE \$ \_\_\_\_\_

OTHER \$ \_\_\_\_\_

TOTAL \$ 11969

FEDERAL TAX

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

TOTAL \$ \_\_\_\_\_

IF YOUR PLANS CHANGE

And you find you will not be able to use these reserved coach or pullman accommodations, please notify your Ticket Agent PROMPTLY so that the space can be re-assigned.

J. R. GETTY,

General Passenger Traffic Manager, RICHMOND, VA.

THANK YOU FOR YOUR PATRONAGE

119.69

239.38

Total paid

**your tickets**

May 7/60  
B 2.20

**SEABOARD**  
**RAILROAD**





# PASSENGER REPRESENTATIVES

## OFFICES IN PRINCIPAL CITIES

Athens, Ga.	414 Southern Mut. Ins. Bldg., Tel. Liberty 6-8948
Atlanta (3), Ga.	67 Luckie St., Tel. Jackson 2-5018
Augusta, Ga.	511 Southern Finance Bldg., Tel. Park 2-4668
Baltimore (2), Md.	5 & 7 So. Calvert St., Lexington 9-4135
Birmingham (3), Ala.	S.A.L. Bldg., 30 South 20th Street, Tel. Alpine 2-5158
Boston (16), Mass.	No. 2 Little Bldg., 80 Boylston St., Tel. Liberty 2-2634
Brunswick, Ga.	Travel Center, 504 "G" St., Tel. Amherst 5-5860
Buffalo (3), N. Y.	205 Lackawanna Terminal, Tel. Wash. 3736
Charleston (35), S. C.	East Bay & Hasell St., Tel. RA-3-0656; RA-2-2191
Charlotte (2), N. C.	228 East 5th St., Tel. Edison 2-8167
Chattanooga (2), Tenn.	1015 James Bldg., Tel. Amherst 6-3758
Chicago (3), Ill.	1460-1461 Marquette Bldg., Tel. State 2-2185
Cincinnati (2), Ohio	1803 Carew Tower, Tel. Main 1-5061
Cleveland (15), Ohio	2037 East 14th St., Tel. Tower 1-6155
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Detroit (26), Mich.	1207 Lafayette Bldg., Tel. Woodward 2-8404
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## SEABOARD

### RAILROAD

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## RATES

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2.75 for 15 days  
3.50 for 21 days  
4.50 for 30 days

## COLUMN

1  
\$10,000  
\$10,000  
\$ 5,000  
\$ 30.00  
\$ 15.00

## WORLD WIDE COVERAGE

for accidental death  
for loss of both hands or both feet  
for loss of one hand or foot  
per week for total disability, up to 52 weeks  
per week for partial disability up to 26 weeks

## COLUMN

2  
\$3,000  
\$2,000  
\$1,500  
\$15.00  
\$ 9.00

## RATES

\$ 6.00 for 45 days  
7.50 for 60 days  
10.00 for 90 days  
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15.00 for 150 days  
17.50 for 180 days

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Augusta, Ga.	511 Southern Finance Bldg., Tel. Park 2-4668
Baltimore (2), Md.	5 & 7 So. Calvert St., Lexington 9-4135
Birmingham (3), Ala.	S.A.L. Bldg., 30 South 20th Street, Tel. Alpine 2-5158
Boston (16), Mass.	No. 2 Little Bldg., 80 Boylston St., Tel. Liberty 2-2634
Brunswick, Ga.	Travel Center, 504 "G" St., Tel. Amherst 5-5860
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Charleston (35), S. C.	East Bay & Hasell St., Tel. RA-3-0656; RA-2-2191
Charlotte (2), N. C.	228 East 5th St., Tel. Edison 2-8167
Chattanooga (2), Tenn.	1015 James Bldg., Tel. Amherst 6-3758
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Jacksonville (2), Fla.	Redland Travel Service, 283 S. Krome Ave., Tel. Circle 7-1626
Kansas City (5), Mo.	218 W. Forsyth St., Tel. Elgin 3-1791
Key West, Fla.	1204 Fairfax Bldg., Tel. Victor 2-4747
Kingston, Jamaica	Simone's Tours, 514 Southard St., Tel. Cypress 6-5722
Lake Wales, Fla.	Martin's Travel Service, Harbour & East Sts., Tel. 5588-89
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Marathon, Fla.	200 Seventh St., Tel. SH 3-7428
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Miami (32), Fla.	1553 Washington Ave., Tel. Franklin 1-6611
Montgomery (2), Ala.	173 E. Flagler St. Tel. Franklin 1-6611
Montreal, Canada	119 Columbus St., Tel. Amherst 3-4479
Nashville (3), Tenn.	1240 Peel St., Tel. University 6-7811
Nassau, Bahamas	830 Third Nat'l Bank Bldg., Tel. AL 6-7427
New Orleans (12), La.	Bahamas Tourist Co., Ltd.
New York (20), N. Y.	Shirley Street, Tel. 3181
Norfolk (10), Va.	914 Hibernia Bank Bldg., Tel. Jackson 5-7888
Ocala, Fla.	12 West 51st St., Tel. Circle 5-7380
Orlando, Fla.	141 Granby St., Tel. Madison 5-5896
Palmetto, Fla.	13 Van Buren St., Tel. Marion 2-6702
Petersburg, Va.	1045 West Amelia Ave., Tel. Garden 4-7194
Philadelphia (3), Pa.	901 Ninth Ave., Tel. 33-101
Pittsburgh (19), Pa.	Seaboard Passenger Station, Tel. Regent 38251
Plant City, Fla.	306 Transportation Center, Tel. Rittenhouse 6-7154
Portsmouth, Va.	953 Union Trust Bldg., Tel. Atlantic 1-1945
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Raleigh, N. C.	Seaboard Passenger Station, Tel. Export 7-0797
Richmond, Va.	Puerto Rico Tours, Inc., San Juan 15 PR
St. Louis (1), Mo.	309 Recinto Sur St., Tel. 3-2860
St. Petersburg (1), Fla.	922 Insurance Bldg., Tel. Temple 3-2714
Sarasota, Fla.	708 E. Grace St., Tel. Milton 3-0291
Tallahassee (1), Fla.	OR 3600 W. Broad St., Tel. Elgin 9-6911
Tampa (2), Fla.	1921 Railway Ex. Bldg., Tel. Main 1-1894
Tulsa, Okla.	415 First Avenue, North, Tel. 7-5168-9
Virgin Islands	Main & Lemon Streets, Ringling 7-4539
Washington (6), D. C.	7 E. Congress St., Tel. AD 3-7733 & AD 6-3321
West Palm Beach, Fla.	Seaboard Passenger Station, Tel. 2-4994
Wilmington, N. C.	Hillsboro Hotel Bldg., Tel. 2-8327
Winter Haven, Fla.	5906 East 26th Place, Temple 5-3130

## SEABOARD

### RAILROAD

# ASK THE TICKET AGENT FOR A TRAVELERS INSURANCE TICKET

## WORLD WIDE COVERAGE

### RATES

\$ 6.00	for	45 days
7.50	for	60 days
10.00	for	90 days
12.50	for	120 days
15.00	for	150 days
17.50	for	180 days

### COLUMN

2	\$3,000
both hands or both feet	\$3,000
one hand or foot	\$1,500
ability, up to 52 weeks	\$15.00
ability up to 26 weeks	\$ 9.00

while traveling in public conveyances on land or water.  
on land or water, including while riding in or  
sustained while the insured is a passenger  
per trip over an established route.

halation, skiing, speed contests, professional

## COMPANIES

Compensation, Group, Burglary,  
ty Bonds.

RATE  
\$ .25

THE PULLMAN COMPANY  
**PASSENGER'S CHECK**  
To identify accommodations purchased  
Property taken into car will be entirely at owner's risk

FORM **B-1-M**  
FROM

727009

THE PULLMAN COMPANY  
**PASSENGER'S CHECK**  
To identify accommodations purchased  
Property taken into car will be entirely at owner's risk

FORM **B-1-M**  
FROM

727017

CAR

19



THE PULLMAN COMPANY  
**PASSENGER'S CHECK**

To identify accommodations purchased  
Property taken into car will be entirely at owner's risk

FORM **B-1-M**

**727017**

FROM

TO

ACCOMMODATIONS

CAR

DATE

2:15 P. M. TRAIN

MAR 17 1960

FOR 1 PSGR(S)

RESERVATION  
RECORDED  
ON NO. 1

GOVT.  
OR  
OTHER

SELLING AGENT

Value  
\$ 2015

11-3  
.....  
(Pullman Office No.)

Tax  
\$ 202

3-17-60  
.....  
(Date of Sale)

Total  
\$ 2217

THE PULLMAN COMPANY  
**PASSENGER'S CHECK**

To identify accommodations purchased  
Property taken into car will be entirely at owner's risk

FORM

**B-1-M**

**727009**

FROM

WASHINGTON DC

TO

MINN FL

ACCOMMODATIONS

R4K 2

CAR

5112

DATE

215P

M. TRAIN

3-15-60

19

FOR

PSGR(S)

RESERVATION  
RECORDED  
ON NO.

99368

GOVT.  
OR  
OTHER

SELLING AGENT

11-3

(Pullman Office No.)

0301001

3-10

(Date of Sale)

Value

\$

2015

Tax

\$

202

Total

\$

2217



NAME \_\_\_\_\_ ADDRESS \_\_\_\_\_  
GOING \_\_\_\_\_ YOUR TRAIN LEAVES \_\_\_\_\_ AT 1400P M. DATE 5-7  
RETURNING \_\_\_\_\_ YOUR TRAIN LEAVES \_\_\_\_\_ AT \_\_\_\_\_ M. DATE \_\_\_\_\_

SEAT 48

LOWER \_\_\_\_\_

UPPER \_\_\_\_\_

DR. ROOM \_\_\_\_\_

COMP. \_\_\_\_\_

BEDROOM \_\_\_\_\_

ROOMETTE \_\_\_\_\_

CAR

32

RAIL FARE \$ \_\_\_\_\_

PULLMAN \$ \_\_\_\_\_

SEAT FARE \$ \_\_\_\_\_

TOTAL TAX \$ 110

INSURANCE \$ \_\_\_\_\_

OTHER \$ \_\_\_\_\_

TOTAL \$ \_\_\_\_\_

FEDERAL TAX

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

TOTAL \$ \_\_\_\_\_

IF YOUR PLANS CHANGE  
And you find you will not be  
able to use these reserved  
coach or pullman accommo-  
dations, please notify your  
Ticket Agent PROMPTLY so  
that the space can be re-  
assigned.

J. R. GETTY, General Passenger Traffic Manager, RICHMOND, VA.

THANK YOU FOR YOUR PATRONAGE

SI-Photo-800b  
8-59

PHOTOGRAPHIC SERVICES DIVISION

MUSEUM OF NATURAL HISTORY BRANCH LABORATORY

WORK ORDER REQUEST

ROOM 314A

TELEPHONE EXT. 547

REQUESTED BY <u>Waldo L. Schmitt</u>	DATE OF REQUEST <u>27. X. 60</u>
DIVISION <u>Res. Assoc. (R. 324)</u> TELEPHONE <u>313</u>	DATE REQUIRED <u>4. XI. (15 days)</u>
RECOMMENDED BY <u>H. J. Madison</u>	TITLE <u>Head Curator</u>
APPROVED BY <u>H. J. Madison</u>	TITLE <u>Acting Director</u>

No. of photographs requested 22 <sup>negs</sup> No. of prints of each 1 <sup>of 30 negs</sup> Print size 5x7

SPECIFIC DETAILS:

8 - 5x7 prints from 8 <sup>1/4</sup> x 2 <sup>1/4</sup> B+W negs  
22 - 5x7 prints from 22 - 35mm  
Kodachromes

These prints are need to illustrate an article dealing with 1960 Smithsonian Predin Caribbean expedition. It is hoped that they can be completed in part at least by Nov. 4

SPACE BELOW RESERVED FOR LABORATORY USE

WORK ORDER #	TYPE	EACH	OF	SIZE	TOTAL	DATE REC'D IN PHOTO LAB
PHOTOGRAPH	B & W					
	COLOR					
COPY	B & W					COMPLETED WORK DELIVERED
	COLOR					
DEVELOP	SHEET					ACCEPTED BY
	ROLL					
	PACK					
	PLATE					
PRINT	B & W					PHOTOGRAPHER
	COLOR					
LANTERN SLIDES	B & W					DEVELOPER
	COLOR					
SLIDES (2 X 2)	B & W					PRINTER
	COLOR					



Waldo L. Schmitt  
Kellner (R. 324)

313

27 X 60  
1 X 15 X 10

22 nos.

1 X 30 X 10 5 X 7

8 — 5 X 7 prints from 8 1/4 X 12 1/4 X 14 1/2

22 — 5 X 7 prints from 22 — 35mm  
radiographs

These prints are need to illustrate an article dealing with 1760 Smithsonian Berlin Caribbean expedition. It is hoped that they can be completed in part at least by Nov. 1

W

SI-Photo-800b  
8-59

PHOTOGRAPHIC SERVICES DIVISION

MUSEUM OF NATURAL HISTORY BRANCH LABORATORY

WORK ORDER REQUEST

ROOM 314A

TELEPHONE EXT. 547

REQUESTED BY <u>Waldoh Schmitt</u>	DATE OF REQUEST <u>29 X 60</u>
DIVISION <u>Res. Assoc. R. 324</u> TELEPHONE <u>313</u>	DATE REQUIRED <u>Nov. 4 (if possible)</u>
RECOMMENDED BY _____	TITLE _____
APPROVED BY _____	TITLE _____

No. of photographs requested 22 negs No. of prints of each 1 Print size 5x7

SPECIFIC DETAILS:

8 - 5x7 prints from 8 2 1/4 x 2 1/4 B+W negs  
22 - 5x7 prints from 22 35mm Kodachromes

These prints are wanted to illustrate  
an article dealing with the 1960 S.I. Bredin  
expedition and it is hoped that we may  
have them completed in part at least by Nov. 4/67

SPACE BELOW RESERVED FOR LABORATORY USE

WORK ORDER #	TYPE	EACH	OF	SIZE	TOTAL	DATE REC'D IN PHOTO LAB _____
PHOTOGRAPH	B & W					COMPLETED WORK DELIVERED _____
	COLOR					
COPY	B & W					ACCEPTED BY _____
	COLOR					
DEVELOP	SHEET					PHOTOGRAPHER _____
	ROLL					
	PACK					
	PLATE					
PRINT	B & W					DEVELOPER _____
	COLOR					
LANTERN SLIDES	B & W					PRINTER _____
	COLOR					
SLIDES (2 X 2)	B & W					
	COLOR					



March 20. 8:35 AM Leave berth, Miami River, Miami, Fla.

" 24 4:00 PM Anchor W of Pier, Progreso, Yucatan, Mexico

" 26 8:45 PM Leave Progreso for Isla Mujeres

" 28 9:10 PM Anchor at Isla Mujeres, Quintana Roo

" 29 10:30 AM Change anchorage to closer in, Isla Mujeres.

April 1 7:15 AM Leave Isla Mujeres for Cozumel.

" 1 6:30 PM ~~Anchor~~ Dock at pier, San Miguel, Isla Cozumel, Q.R.

" 2 1:30 PM Leave dock and anchor NW of dock,

" 4 2:30 PM Leave San Miguel, Cozumel for Bahía Espiritu Santo

" 5 8:00 AM Anchor at first anchorage, Espiritu Santo Bay

" 5 10:30 AM Change anchorage to better holding ground, Espiritu Santo Bay,

" 6 5:30 PM Left Bahía Espiritu Santo for Bahía Ascension

" 7 12:30 AM Anchor at Bahía Ascension - ~~first anchorage~~

" 7 3:20 PM Left Bahía Ascension for Cozumel

" 8 12:10 AM Anchor at San Miguel, Cozumel.

" 8 1:15 PM Leave San Miguel for north coast <sup>Cozumel</sup> San Miguel.

" 8 3:45 PM Anchor on Cozumel Bank, off NW coast Cozumel

" 9 2:00 PM Leave anchorage on Cozumel Bank.

" 9 4:30 PM Anchor off pier at San Miguel, Cozumel Id.

" 10 1:15 AM Raise anchor & leave San Miguel, Cozumel Id.

" 10 11:10 A.M. At anchorage, motor stopped, Bahía Ascension

" 10 Evening Moved a little to eastward to new anchorage in slightly deeper water.

1960

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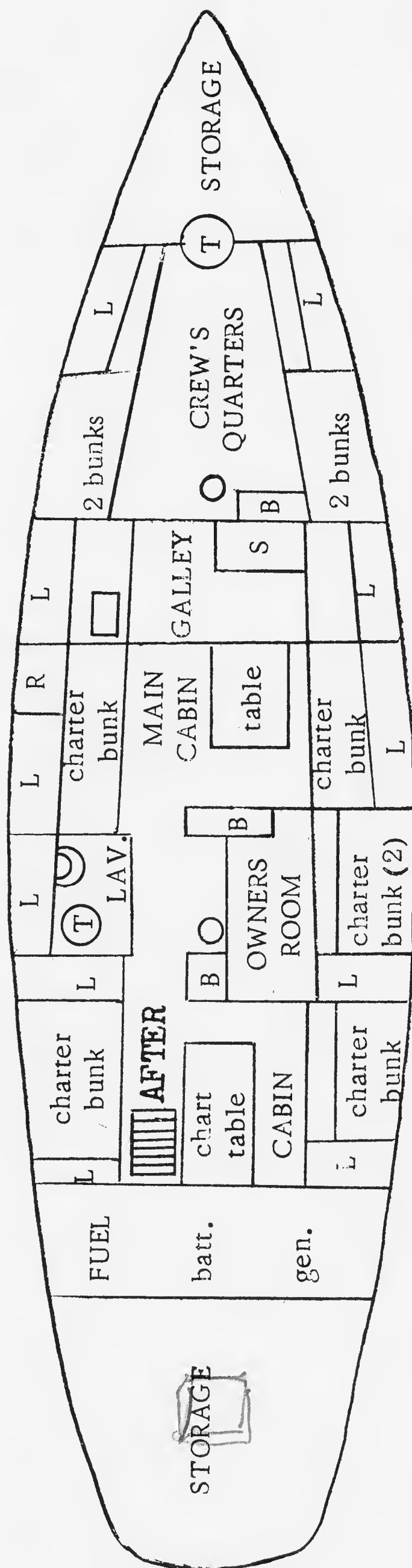


S - stove

T - toilet

B - bureau

L - locker



## NEW ENGLAND AND CARIBBEAN CHARTERS



ABOARD  
THE SCHOONER  
BLUE GOOSE

Address inquiries to Schooner Blue Goose  
Summer-P.O.Box 298, Mystic, Connecticut  
Winter-P.O.Box 6301, Sta. B, Miami, Fla.

Box 36-6301 36


Relax and play on your own yacht  
in picturesque, historic, places



## AHOY MATES

Plan now for a most memorable vacation. Pack your seabags and lay aboard. Heave up the anchor, make sail, and slip out to sea for a voyage of adventure whether it be the historic whaleing and fishing ports of New England, or the pirate lairs of the Caribbean.

### CHARTERING



Chartering has many advantages. You take over operation of a large yacht for a stipulated period. In most cases, it allows one to enjoy a much larger boat than he could afford on a year round basis. A boat the size of Blue Goose will be manned with a competent crew, hired by the charterer. The crew will take care of the routine chores leaving you free to enjoy the pleasures of sailing. If you are limited in boating experience, or would rather take it easy, the crew will operate the boat by themselves. At termination of the charter you can leave the boat, forget the burden of maintenance, and return to your normal way of life carefree and refreshed. Best of all, the cost is less than would be incurred at most resorts.

### ENTERTAINMENT

Aboard your yacht there is a variety of entertainment. Sailing a large schooner is a satisfying experience in itself. Swimming can be enjoyed from the schooner, at some quiet anchorage, or from one of the fine beaches. Skin diving and spearfishing are especially enjoyable in Southern waters. Limited fishing can be done from the schooner or dingy. There are many historic points to visit both North and South. Explorers will find coves, islands, caves, etc. Song fests, beach parties, and parties on deck under the stars, are fine ways to end a days sail. Photographers will find a wealth of material during any voyage.

## THE YACHT

Blue Goose is 70' overall, 16' beam and 9' draft. The boat has roomy comfortable accommodations for a party of six. This boat is a husky, sea kindly vessel patterned after the old Gloucester fishing schooners, some of the finest sea boats ever developed, and is often the subject of shoreside admirers. Her sail rig is easily handled with limited crew. Flush deck construction leaves plenty of space to work the ship and lounge at the same time. A 12' dingy and outboard are at your disposal. Blue Goose is diesel powered with a separate auxiliary generator insuring an adequate power supply. Below deck the interior is well laid out for a charter party. A hatch, in the crew's quarters, makes it unnecessary to pass through the boat to reach the deck. Galley equipment includes bottled gas stove and big electric refrigerator. The main cabin provides fine lounging and dining space, with books, a radio and table for games and writing; bunks in this cabin convert to seats in the daytime. Owners cabin has a bureau, upper and lower bunk and separate hatch to the deck. A large after cabin sleeps two and contains the main companionway. Water and fuel capacities are large, there are ample lockers and drawers, and all cabins have doors that can be closed for privacy.

### AREAS DATES AND RATES

Summer---Any area New York to Eastport, Maine.....June 1 thru Sept. 30  
Winter---Florida Keys, Bahamas, Cuba, or further if term of charter permits.....Nov. 15 thru May 15  
Rates---for periods up to thirty days are \$85.75 per day or \$600.00 a week (less than \$15.00 a day per person). A thirty day period is \$2,400.00 and \$80.00 a day thereafter. Charter price includes use of the boat, crew wages, and insurance. Food, including crew meals, and running expenses are extra.



**CHARTER:**

**84 f. SCHOONER "GULLIVER"**  
**81 f. YAWL "SARABAND"**

These really SPACIOUS yachts have all the COMFORTS of home and are available for private parties of 4-12 guests or organised cruises with individual reservations. COMPETITIVE RATES, no EXTRAS. REFERENCES AND FOLDERS from: P.O.B. 22 Nassau Bahamas.

**BLUE GOOSE**

Spacious 70' diesel schooner for your cruising pleasure in Bahamas or West Indies. Comfortable accommodations for 6 in three double state-rooms. Professional crew. Write for brochure.

**P.O. BOX 36-6301**  
**MIAMI, FLORIDA**

Blue goose

(500  
week)

70

2 date

2 in 4

10 mph.

(32 volt)

Caribee?

in Bahamas

Alpha  
80

3 double

6.5 knots

(36 volt)

Younger



RICHARD BERTRAM & CO., MIAMI  
3660 NW 21st Street  
Miami, Florida  
NEwton 5-0631

and

Bahia-Mar  
Fort Lauderdale, Florida  
JACKSON 2-3311

A-70-X-623 Rev. 2/59 EB

NAME - BLUE GOOSE

ENGINE - 100 hp Cummins Diesel, rebuilt 1956.

TYPE - Auxiliary Schooner

SPEED - 10 mph hour

LOA - 70' LWL - 52'

TANKS - 400 gals fuel  
325 gals water

BEAM - 16' DRAFT - 9'8"

LIGHTING - Kohler generator. 32 volt

DESIGNER - William Hand, Jr.

GALLEY - is amidships and has electric  
refrigeration.

BUILDER - Hodgdon Brothers, Maine

YEAR - 1924

CONSTRUCTION - Yellow pine planking, double oak sawn frames. Iron ballast.

ACCOMMODATIONS - Two double staterooms (one forward, one aft), two berths in the  
main cabin, head. Crew quarters forward for four and head.

EQUIPMENT - Dinghy with outboard, fire protection, pressure water etc.

SAILS & RIGGING - Marconi rigged with gaff foresail. New foresail and 2 headsails.

REMARKS - Very comfortable and well equipped. Has had good maintenance.

LOCATION - Miami

PRICE - \$ 2000

per mo.

Particulars believed to be correct, but not guaranteed.

Crew of 3

Just's Island 2450 NW No Riv Dr.

~~1909 NW 14th St~~ Foot of 24th Ct

over Capt Burnett

Alex. F. Chamberlain <sup>Bellfower</sup> Island Kentucky

Allen Taft Dupont  
Petroleum, Ocean, Wilmington.

East on 20th (1909 N.W. 14th?)

over

Rent or borrow  
a compressor  
Diving hood (Find)

Get Cayman guide  
from Bernard Lewis books.

The Policy

2400  
a month  
~~80~~

600 a week barebon  
to 2400 a month

80 a day. on month bases  
\$800 a week for food

Alex F. Chamberlain  
Belle Font.  
Ashland, Kentucky

Allen Taff. } Dupont  
Petroleum

Plan 0. 2 ft x 2 ft sq,  
3 ft. Max. 32 volt

up 100,000 cars for

Boat Location

Just's Island

2450 NW. N. River Dr.  
Miami, Fla.

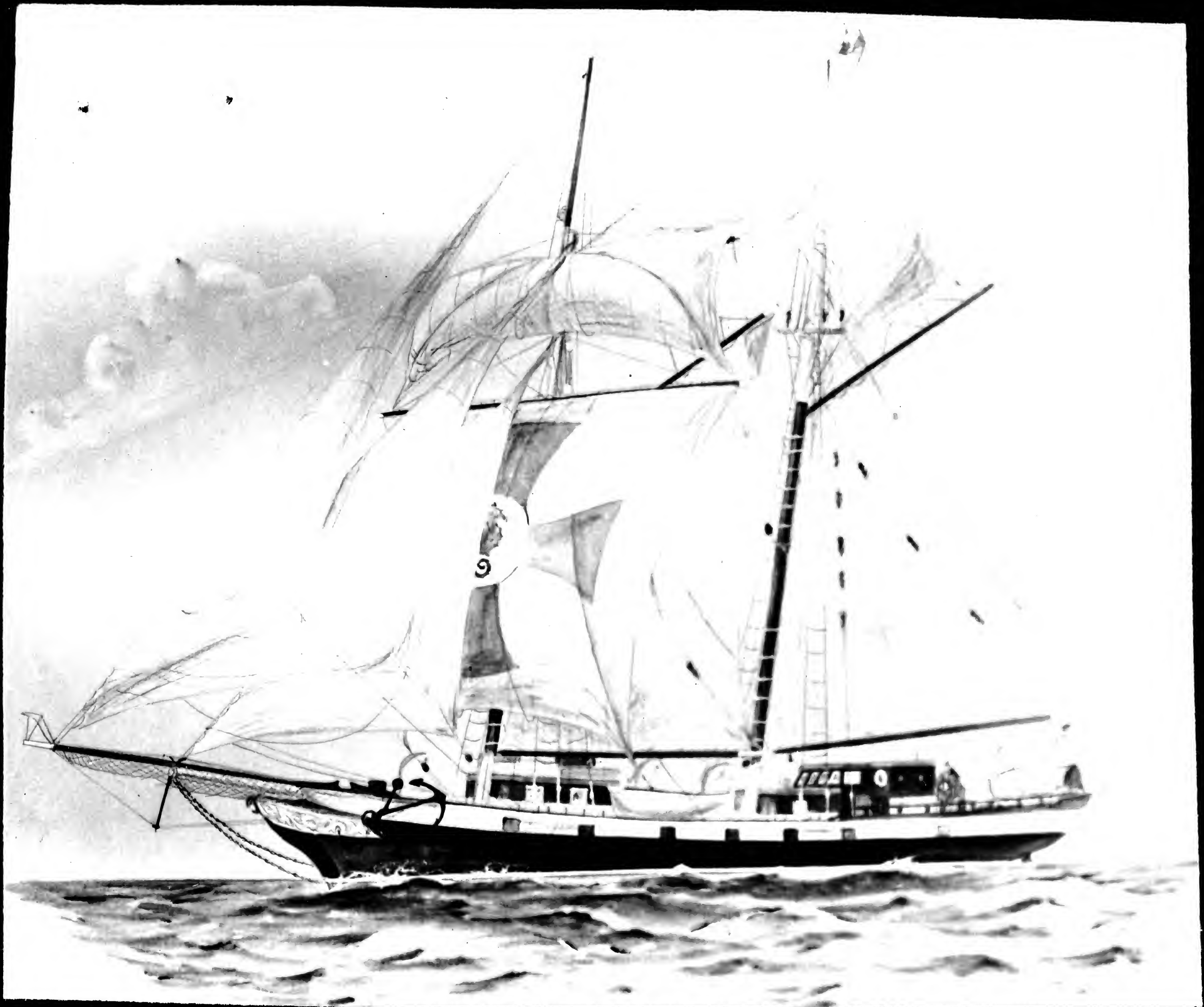
Phone NE 4-0474

Captain (NE 4-7964)  
Tom Burnett

Dr. Thomas Gordon  
Univ. College of the West Indies  
Mona, Jamaica  
Living Club of Jamaica.

\$1,200





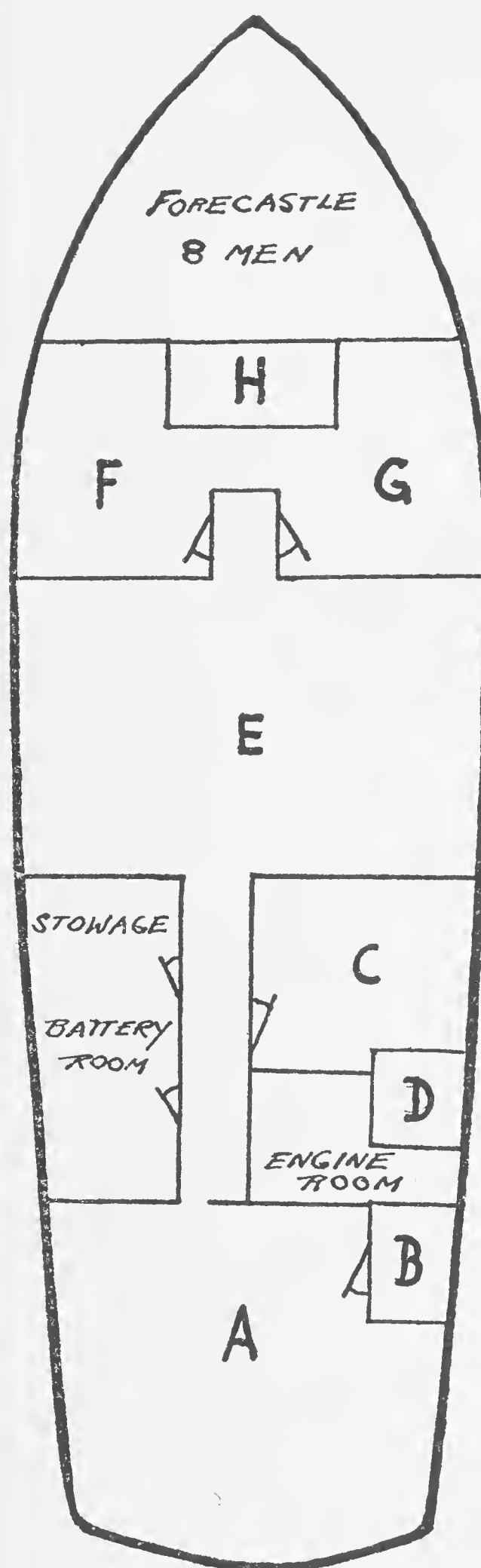
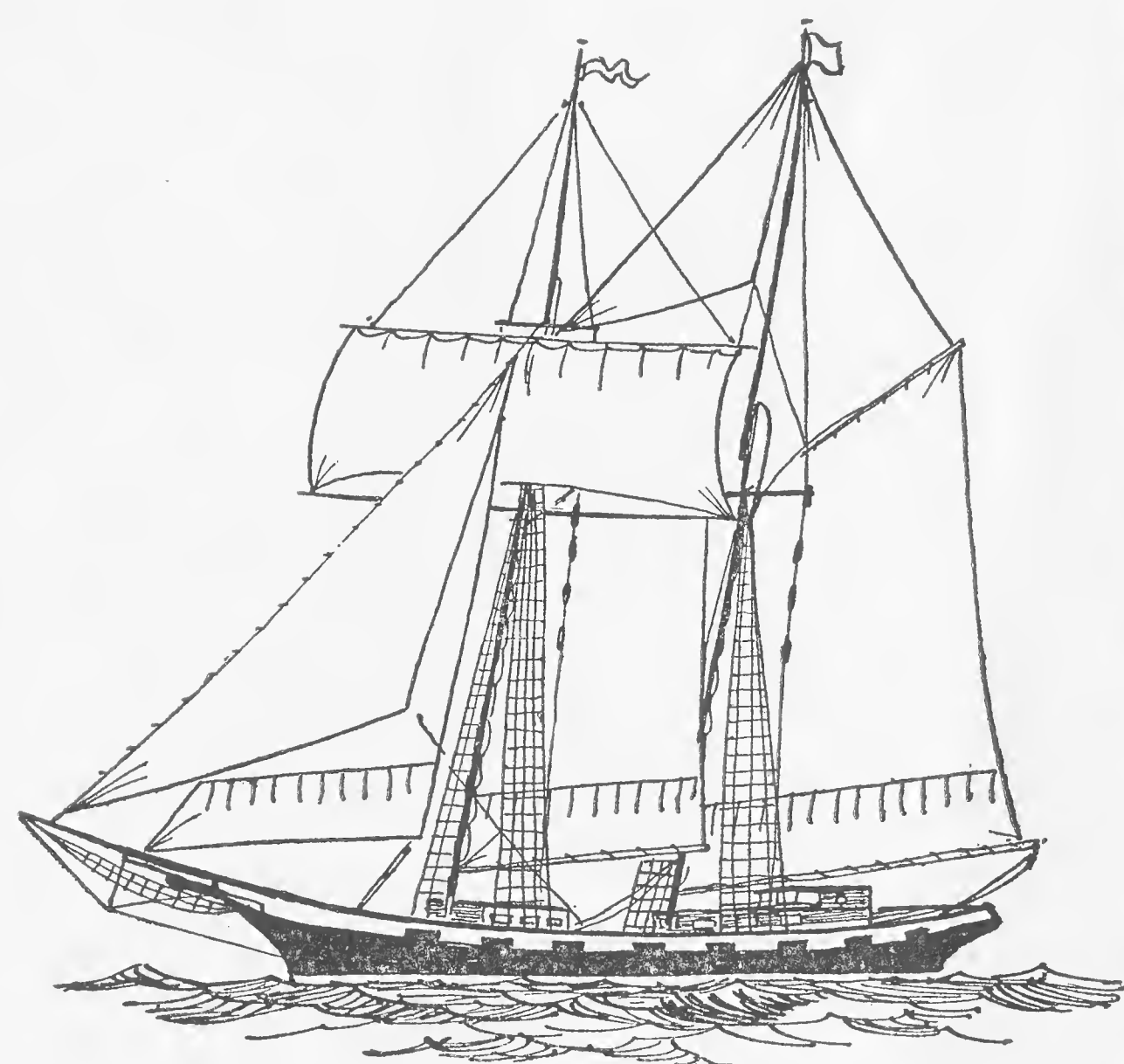
# CARIBEE

## A Seagoing Schooner-Yacht

a 92 ft. reproduction of the

famous Privateer — Slavers of

the 1830 period



A. Large comfortable great cabin aft. This cabin is considered as a double, although it has four bunks. Cabin has settees round a table and six windows. This cabin has private water closet.

B. Water closet and wash basin for use of persons in cabin A.

C. Large cabin with double and single berths. Has its own wash basin and private water closet.

D. Private water closet for use of persons in cabin C.

E. Main salon finished in knotty pine, is airy and cheerful. Spacious settees make this a most comfortable lounge. Meals are served in this lounge on a gimballed table which seats 10.

F. Double cabin with two single berths. This cabin adjoins a tiled bathroom.

G. Double cabin with two single berths. This cabin adjoins a tiled bathroom.

H. Large tiled bath with tub and shower.

I. Deck Cabin — this is an airy cabin with two single bunks located on deck. Has its own private water closet and wash basin.

*weekly charter Rate \$1200.00  
Food extra 5.00 per person  
per day.*

OFFERED FOR CHARTER BY

**VAGABOND CRUISES Ltd.**

*Yacht Charter Specialists*



The 92 foot topsail schooner "CARIBEE" appears at a distance to be an intruder from a bygone era—a Slaver returning from Africa, or a Privateer seeking her prey.

This is because "CARIBEE" was built as an authentic reproduction of the Privateer-slavers of the past century. She is actually a modern yacht, equipped with spacious accommodations and modern conveniences. This vessel is a colorful and thrilling vessel aboard which to enjoy your charter—a comfortable and seakindly yacht which has recently cruised to Europe and the Mediterranean.

"CARIBEE" is now ready to take *you* anywhere.

### **ACCOMMODATIONS**

There are five double staterooms. All staterooms have access to a water closet, and each cabin has wash basin with running water.

Crews' quarters are in the forecastle where the crew has complete facilities and are entirely independent of guests' quarters.

The dining room (or salon) is finished in knotty pine, has red leather settees and is a cheerful bright room for lounging and dining.

The yacht is equipped with four toilets (heads) so that every cabin ajoins a washroom and head.

There is a bath and shower. Bathrooms are tiled.

The galley (kitchen) is located on deck thus keeping cooking odors out of the accommodations.

There are extra large refrigeration and deep freeze facilities.

### **MEALS**

Our galley staff of three (Chef, messboy and steward) having the advantage of excellent working conditions and equipment produce a variety of delicious meals. A uniformed steward attends at the graciously set table.

Complimentary dinner wines are served daily if desired.

We will be glad to provide a typical menu on request, and if there are any special requirements due to dieting, etc., the yacht will be victualled to to suit your needs.

### **CREW**

An experienced European Captain commands "CARIBEE," whose wife is also aboard in the capacity of hostess. The balance of the crew is composed of a chef, messboy, steward, mate, and two able seamen. These men are clean cut and trained to carry out their duties efficiently. Several are excellent skin divers.

### **EQUIPMENT**

There are two outboard launches, all the usual safety equipment as well as radio telephone by which we keep in daily contact with shore stations. There is a direction finder, and some fishing equipment.

For the information of those who may wish to bring electric razors, etc., the current is 110 volt DC.

### **OUR STANDARD**

Any yachts operating under Vagabond Cruises Limited must conform to our very rigid standards concerning the yacht itself, performance and conduct of crew, cleanliness and safety.

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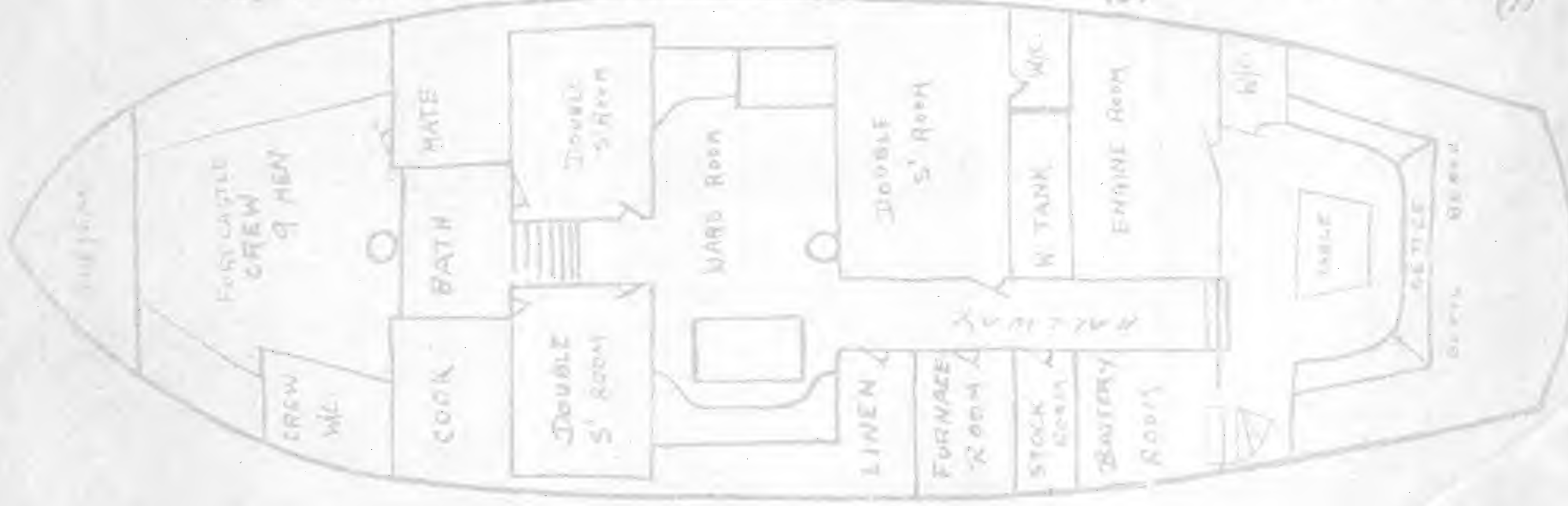
1910 2200 10000

\$1200 wk  
crew of 5



(1) CHART HOUSE ON DECK

(2) LARGE DOUBLE (3) CAPTAIN'S CABIN (4) GALLEY ON DECK  
CABIN & W.C. ON DECK



## YACHT CHARTER PARTY

MEMORANDUM OF AGREEMENT made this \_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_ by and between \_\_\_\_\_ of \_\_\_\_\_ Owner of the \_\_\_\_\_ Yacht named "\_\_\_\_\_" of an overall length of about \_\_\_\_\_ feet, hereinafter called the Owner, and \_\_\_\_\_ of \_\_\_\_\_ hereinafter called the Charterer.

WITNESSETH:

### TERMS, HIRE & PAYMENTS

1. In consideration of the covenants hereinafter contained, the said Owner agrees to let and the said Charterer agrees to hire the said Yacht on a bare boat charter basis from \_\_\_\_\_ on the \_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_ to \_\_\_\_\_ on the \_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_ for the total sum of \_\_\_\_\_ Dollars, of which amount \_\_\_\_\_ Dollars shall be paid on the signing of this Agreement and the balance thereof in advance payments as follows:

### DELIVERY

2. The Owner agrees to deliver the yacht at \_\_\_\_\_ on the \_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_ in full commission and in proper working order, outfitted as a yacht of her size, type and accommodations, with full equipment, inclusive of that required by law, and fully furnished including china, linen, glass and silverware; staunch, clean and in good condition throughout and ready for service; and agrees to allow demurrage pro rata to the Charterer for any delay in delivery.

But should it be impossible for the Owner to make delivery as stipulated through causes beyond his control and should such delivery be not made within\* \_\_\_\_\_ days thereafter, then this Agreement may be cancelled by the Charterer and any charter money paid in advance shall be returned to him.

### CREW

3. Charterer shall be responsible for manning the said yacht with a competent captain and with crew, if required. Captain and crew, if any, shall be men of longstanding professional experience navigating

The selection of a captain by the Charterer shall in all events be subject to approval by Hull Underwriters, or their agent, if required. The captain shall in no way be the agent of the Owner.

### INSURANCE

4. The Owner shall, for his own protection, keep the yacht fully insured against fire, collision, perils of the sea, protection and indemnity, and other standard marine coverage. The Charterer shall, for his own protection, keep himself and the yacht fully insured with respect to protection and indemnity, with limits of \$ \_\_\_\_\_ any one person, \$ \_\_\_\_\_ any one accident, including any liability for injury or death to any crew member.

### ACCIDENTS

5. The Owner agrees that should the yacht after delivery sustain breakdown of machinery or be disabled or damaged by fire, grounding, collision or other cause so as to prevent the use of the vessel by the Charterer for a period of not less than\*\* \_\_\_\_\_ consecutive hours at any time, the same not being brought about by any act or default of the Charterer, the Owner shall make a pro rata return of hire to the Charterer for such period in excess of the said \_\_\_\_\_ hours the yacht shall be disabled or unfit for use.

Provided, however, that in case the yacht be lost or said damage be so extensive that the yacht cannot be or is not repaired within\*\*\* \_\_\_\_\_ days, then the charter price shall be abated pro rata and charter money paid in advance shall be rebated pro rata from the time of such damage, and the Charterer shall have the right to terminate this charter.

\* Usually 3 days for each month of charter. \*\* Usually 48 hrs. on charters of one month or more. \*\*\* Usually one-quarter of charter term.



#### RUNNING EXPENSES

6. The Charterer agrees to accept the yacht delivered as hereinbefore provided and to pay all running expenses during the term of charter, including food of crew, fuel and water, deck, engine room and other consumable stores, pilotage, port charges, and provisions and supplies for himself and party.

#### NAVIGATION LIMITS

7. The Charterer agrees to restrict the cruising of the yacht to the following waters;

#### REPLACEMENTS

8. The Charterer agrees to be responsible for and to replace or make good any injury to the yacht, her equipment or furnishings, caused personally by himself or any of his party.

The Charterer further agrees to leave all linens, napery, etc., re-laundered and in good condition, fair wear and tear expected, upon expiration of the charter term.

#### RE-DELIVERY

9. The Charterer agrees to surrender the yacht at the expiration of this charter at \_\_\_\_\_, Free and clear of any indebtedness that may have been incurred for his account during the term of charter and in as good condition as when delivery was taken, fair wear and tear from ordinary use and any loss or damage that he shall not be liable to make good expected. But should it be impossible for the Charterer to make redelivery of the yacht as stipulated, due to causes beyond his control, he shall pay demurrage pro rata to the Owner for the time that such redelivery is delayed.

#### RESTRICTED USE

10. The Charterer agrees that the yacht shall be employed exclusively as a pleasure vessel for the sole and proper use of himself, his family, guests and servants during the term of this charter and shall not transport merchandise or carry passengers for pay, or engage in any trade, nor in any way violate the Revenue Laws of the United States or of any other Government within the jurisdiction of which the yacht may be at any time, and shall comply with the law in all other respects.

#### NON-ASSIGNMENT

11. The Charterer agrees not to assign this agreement or sub-charter the yacht without the consent of the Owner in writing.

#### DEFAULTS

12. It is mutually agreed that should any installment of charter money be not paid on the date designated, or within three days thereafter, the Owner shall have the right to resume possession of the yacht and terminate this charter, without prejudice to his rights in respect to any arrears of charter money, or of any breach by the Charterer of the conditions here contained.

#### CONDITIONS ADDITIONAL (if any)

It is further agreed by the parties hereto that

Should the Owner and Charterer be unable to reconcile any differences that may arise with respect to this Agreement such dispute shall be referred to three arbitrators; one to be chosen by each of the aforesaid parties and the third by the two so chosen. The decision in writing signed by any two said arbitrators shall be final and binding upon both Owner and Charterer, the expense in connection with such arbitration to be equally divided between them.

To the true and faithful performance of the foregoing Agreement the said parties hereto bind themselves, their heirs, executors, administrators and assigns, each to the other.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands the day and year first above written.

\_\_\_\_\_  
(Witness)

\_\_\_\_\_  
(Owner)

\_\_\_\_\_  
(Witness)

\_\_\_\_\_  
(Charterer)

YACHT EMPLOYMENT AGREEMENT

AGREEMENT made this .....day of .....19...by and between  
.....Charterer of the Yacht "....."  
hereinafter called the Employer and .....  
of.....hereinafter called the Yacht  
Captain;

WITNESSETH:

WHEREAS, Charterer has under charter the Yacht "....."  
pursuant to his bare boat charter party agreement wherein it is Em-  
ployer's obligation to furnish the said yacht with a competent master  
and crew; and

WHEREAS, Yacht Captain is a competent master, having had .....  
.....  
and is able to furnish a crew for the management and navigation of  
the said yacht; and

WHEREAS, the parties desire to reduce their agreement to written  
terms;

NOW, THEREFORE, in consideration of the premises and of the  
agreements hereinafter contained, it is agreed as follows:

1. Employer hereby hires Yacht Capt in as the Master of the said  
yacht to act as such Master so long as the yacht is under charter to  
employer.

2. Yacht Captain agrees to furnish ...crewmen to assist in oper-  
ating and navigating the said yacht. The Captain and crew, if any,  
shall be properly uniformed. The crew to comprise the following:

3. Yacht Captain shall be paid for his services and the services  
of his crew a total sum of \$....., and Employer shall furnish to  
the Yacht Captain and his crew quarters and food during the term of  
this agreement.

4. The term of this agreement shall commence the ...day of.....  
19...or at such time that the yacht shall be ready to sail pursuant  
to the bare boat charter party agreement with the Owner, and shall  
terminate on the ...day of .....19..., unless sooner terminated  
by the termination of the yacht party agreement for any reason what-  
soever. In the event that the yacht charter party agreement is sooner  
terminated, the Master and crew will receive a prorated share of the  
agreed compensation for their services.

5. Charterer shall have the right to have any of the crew of off-  
icers discharged for cause and others engaged in their place. Yacht  
Captain shall replace any member of the crew who deserts or resigns  
from service. Charterer may not terminate this agreement without good  
cause.

IN WITNESS WHEREOF, the parties have duly executed this agreement  
as of the day and year first above written.

\_\_\_\_\_  
(WITNESS)

\_\_\_\_\_  
(EMPLOYER)

\_\_\_\_\_  
(WITNESS)

\_\_\_\_\_  
(YACHT CAPTAIN)



## A G R E E M E N T

THIS AGREEMENT, made this 18 day of February,  
1960, by and between the SMITHSONIAN INSTITUTION, established  
by an Act of Congress of August 10, 1846, party of the first  
part and THOMAS C. BURNETT, party of the second part;

WHEREAS, the party of the first part entered into an  
Agreement entitled "Yacht Charter Party" with Andrew C. Harvey  
for the charter of a certain yacht named "Blue Goose" for the  
period from noon on March 25, 1960 to noon on May 6, 1960; and

WHEREAS, the aforesaid contract between the party of  
the first part (referred to therein as the Charterer) and Andrew  
C. Harvey provides in paragraph six (6) thereof:

"The Charterer agrees to accept the yacht  
delivered as hereinbefore provided and to pay  
all running expenses during the term of charter,  
including food of crew, fuel and water, deck,  
engine room and other consumable stores, pilot-  
age, port charges, and provisions and supplies  
for himself and party."

NOW, THEREFORE, THIS AGREEMENT WITNESSETH:

(1) The party of the second part agrees to assume any  
and all obligations imposed upon the party of the first part by  
paragraph six (6) of the contract between the party of the first  
part and Andrew C. Harvey entitled "Yacht Charter Party".



(2) The party of the first part agrees to pay the party of the second part the sum of One Thousand Two Hundred Dollars (\$1,200.00), Four Hundred Dollars (\$400.00) of which will be payable on March 15, 1960 and the balance payable in four equal installments of Two Hundred Dollars (\$200.00) on March 25, 1960, April 1, 8 and 15 of 1960.

(3) The party of the second part agrees to furnish to the party of the first part two (2) small boats for use during the charter (March 25, 1960 to May 6, 1960) of the "Blue Goose" by the party of the first part.

(4) The party of the second part agrees to furnish some means of taking showers on board the "Blue Goose," during the charter of that yacht by the party of the first part (March 25, 1960 to May 6, 1960).

(5) The party of the second part agrees to deliver the boat in Progreso, Mexico and bring it home from the Cayman Islands without cost to the party of the first part.

(6) The party of the first part agrees to pay the party of the second part the sum of Two Hundred Fifty Dollars (\$250.00) on or before March 15, 1960 and in consideration thereof the party of the second part agrees to purchase and install and to pay any additional expenses for the purchase and



installation of a radio telephone; said radio telephone to comply with all U. S. Maritime Regulations of any kind of description including any and all Coast Guard Regulations for vessels of this type, size and scope which carry charter parties in the waters covered by the contract between the party of the first part and Andrew C. Harvey entitled "Yacht Charter Party." The party of the second part agrees to have said radio telephone in working order prior to the yacht leaving the United States for Progreso, Mexico.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals the day and year first above written.

Attest:

SMITHSONIAN INSTITUTION

By

Leonard Carmichael

Witness:

(SEAL)

Witness:

By

Thomas C. Burnett

Payment Received  
in Full 16 mar. 1960

Geo. F. Adams  
RICHARD H. BERTRAM & CO.

Yacht Broker—Yacht Insurance

3660 N. W. 21st St., Miami, Fla.

Phone NEWton 5-0631

Dr. Schmitt's copy

Yacht

Charter Party



3660 NW 21st Street  
Miami 42 Florida  
NEWton 5-0631

Bahia Mar  
Fort Lauderdale, Florida  
Jackson 2-3311



# Yacht Charter Party

## Memorandum of Agreement

made this 23 day of November 19 59  
by and between Andrew C. Harvey of New York, N. Y.  
Owner of the <sup>1</sup> Oil Screw Yacht named "BLUE GOOSE"  
of an over all length of about 70 feet, hereinafter called the Owner,  
and Smithsonian Institution of Washington 25, D.C.  
hereinafter called the Charterer.

## Witnesseth:

### TERMS, HIRE & PAYMENTS

1. In consideration of the covenants hereinafter contained, the said Owner agrees to let and the said Charterer agrees to hire the said Yacht on a bare boat charter basis from <sup>2</sup> noon on the 25th day of March 19 60 to <sup>2</sup> noon on the 6th day of May 19 60 for the total sum of Twenty-five Hundred (\$2500.00) Dollars, of which amount Nine Hundred (\$900.00) Dollars shall be paid ~~on the signing of this Agreement and the balance thereof in advance payments as follows:~~

to Richard Bertram & Co., Yacht Brokers upon the signing of this Agreement, and the balance thereof in advance as provided in paragraph 13.

### DELIVERY

2. The Owner agrees to deliver the yacht at Progreso, Yucatan Mexico on the 25th day of March 19 60

in full commission and in proper working order, outfitted as a yacht of her size, type and accommodations, with full equipment, inclusive of that required by law, and fully furnished including china, linen, glass and silverware; staunch, clean and in good condition throughout and ready for service; and agrees to allow demurrage pro rata to the Charterer for any delay in delivery.

But should it be impossible for the Owner to make delivery as stipulated through causes beyond his control and should such delivery be not made within <sup>3</sup> five (5) days thereafter, then this Agreement may be cancelled by the Charterer and any charter money paid in advance shall be returned to him.

### CREW

3. Charterer shall be responsible for manning the said yacht with a competent captain and with crew, if required. Captain and crew, if any, shall be men of longstanding professional experience navigating the coastal and inland waters of the

United States and the Caribbean Sea.

The selection of a captain by the Charterer shall in all events be subject to approval by Hull Underwriters, or their agent, if required. The captain shall in no way be the agent of the Owner.

1. Type of Yacht.  
2. Usually noon.  
3. Usually 3 days for each month of charter term.

INSURANCE

4. The Owner shall, for his own protection, keep the yacht fully insured against fire, collision, perils of the sea, protection and indemnity, and other standard marine coverage. The Charterer shall, for his own protection, keep himself and the yacht fully insured with respect to protection and indemnity, with limits of \$ 100,000 any one person, \$ 100,000 any one accident, including any liability for injury or death to any crew member.

ACCIDENTS

5. The Owner agrees that should the yacht after delivery sustain breakdown of machinery or be disabled or damaged by fire, grounding, collision or other cause so as to prevent the use of the vessel by the Charterer for a period of not less than <sup>1</sup>24 consecutive hours at any time, the same not being brought about by any act or default of the Charterer, the Owner shall make a pro rata return of hire to the Charterer for such period in excess of the said <sup>1</sup>24 hours the yacht shall be disabled or unfit for use.

Provided, however, that in case the yacht be lost or said damage be so extensive that the yacht cannot be or is not repaired within <sup>2</sup> ten (10) days, then the charter price shall be abated pro rata and charter money paid in advance shall be rebated pro rata from the time of such damage, and the Charterer shall have the right to terminate this charter.

RUNNING  
EXPENSES

6. The Charterer agrees to accept the yacht delivered as hereinbefore provided and to pay all running expenses during the term of charter, including food of crew, fuel and water, deck, engine room and other consumable stores, pilotage, port charges, and provisions and supplies for himself and party.

NAVIGATION  
LIMITS

7. The Charterer agrees to restrict the cruising of the yacht to the following waters, viz.: The Gulf of Mexico and Western Caribbean

REPLACEMENTS

8. The Charterer agrees to be responsible for and to replace or make good any injury to the yacht, her equipment or furnishings, caused personally by himself or any of his party.

The Charterer further agrees to leave all linens, napery, etc., relaundersed and in good order, fair wear and tear excepted, upon expiration of the charter term.

RE-DELIVERY

9. The Charterer agrees to surrender the yacht at the expiration of this charter at the Cayman Islands, free and clear of any indebtedness that may have been incurred for his account during the term of charter, and in as good condition as when delivery was taken, fair wear and tear from ordinary use and any loss or damage that he shall not be liable to make good excepted.

But should it be impossible for the Charterer to make redelivery of the yacht as stipulated, due to causes beyond his control, he shall pay demurrage pro rata to the Owner for the time that such delivery is delayed.

RESTRICTED  
USE

10. The Charterer agrees that the yacht shall be employed exclusively as a pleasure vessel for the sole and proper use of himself, his family, guests and servants during the term of this charter and shall not transport merchandise or carry passengers for pay, or engage in any trade, nor in any way violate the Revenue Laws of the United States or of any other Government within the jurisdiction of which the yacht may be at any time, and shall comply with the law in all other respects.

NON-  
ASSIGNMENT

11. The Charterer agrees not to assign this Agreement or sub-charter the yacht without the consent of the Owner in writing.

DEFAULTS

12. It is mutually agreed that should any installment of charter money be not paid on the date designated, or within three days thereafter, the Owner shall have the right to resume possession of the yacht and terminate this charter, without prejudice to his rights in respect of any arrears of charter money, or of any breach by the Charterer of the conditions here contained.

1. Usually 48 hours on charters for one month or more.  
2. Usually one-quarter of the charter term.



**BROKERAGE  
FEES**

13. A brokerage fee in the sum of \$ 402.00 shall be payable by the Owner upon the signing of this Agreement and payment of the first installment of hire to Richard Bertram & Co., Yacht Brokers.

In the event of any extension or renewal of this Charter, or subsequent charters between the parties hereto within a period of two years from the date of this charter, the said Yacht Brokers shall be entitled to the yacht brokerage commission. Should the yacht be purchased by the Charterer during the charter term or within the period of two years after the expiration of the charter, the Owner shall pay the said Yacht Brokers the sale brokerage fee on the sale price. on the sale price.

**CONDITIONS  
ADDITIONAL  
(if any)**

It is further agreed by the parties hereto that pursuant <sup>to</sup> ~~of~~ the terms hereof, the Vessel shall depart from the United States on or about March 19th 1960, prior to which departure date, the balance due hereunder, namely \$1,600.00 shall be paid to Richard Bertram & Co. to be held in escrow by them pending receipt of cable advice from the Charterer or its representative, to the effect that the Vessel has been satisfactorily delivered as above provided. Upon the receipt of such advice, the total charter fee, less the brokerage commission, shall be paid to the Owner or as otherwise directed by him.

Should the Owner and Charterer be unable to reconcile any differences that may arise with respect to this Agreement such dispute shall be referred to three arbitrators; one to be chosen by each of the aforesaid parties and the third by the two so chosen. The decision in writing signed by any two said arbitrators shall be final and binding upon both Owner and Charterer, the expense in connection with such arbitration to be equally divided between them.

To the true and faithful performance of the foregoing Agreement the said parties hereto bind themselves, their heirs, executors, administrators and assigns, each to the other.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands the day and year first above written.

Andrew C. Harvey  
(OWNER)

WITNESS:

Thomas C. Burnett

SMITHSONIAN INSTITUTION

By:

L. C. Smith  
(CHARTERER)

WITNESS:

Louise M. Pearson

Par. 5 - Pursuant to the terms of bare boat charter above referred to, the yacht shall depart from the United States on or about March 19th 1960, prior to which departure date, the sum due hereunder, namely \$1,020.00 shall be paid to Richard Bertram & Co., Yacht Brokers, to be held in escrow by them pending receipt of cable advice from the Charterer or its representative, to the effect that the yacht has been satisfactorily delivered in accordance with the terms of said bare boat charter. Upon receipt of such advice, the sum due hereunder, shall be paid to the Master of the yacht or as otherwise directed by him.

*Payment Received  
on Full 16 Mar 1960*

*Geo. F. Adams*  
RICHARD H. BERTRAM & CO.

*Yacht Broker—Yacht Insurance*

3660 N. W. 21st St., Miami, Fla.

Phone NEWton 5-0631

Dr. Schmitt's copy

**Yacht  
Employment  
Agreement**



3660 NW 21st Street  
Miami 42 Florida  
Newton 5-0631

Bahia Mar  
Fort Lauderdale, Florida  
Jackson 2-3311



# Yacht Employment Agreement

AGREEMENT made this 23rd day of November 19 59 by and between  
Smithsonian Institution Charterer of the Yacht "BLUE GOOSE"  
hereinafter called the Employer, and Thomas C. Burnett  
of Miami, Fla. hereinafter called the Yacht Captain;

## Witnesseth:

WHEREAS, Charterer has under charter the Yacht "BLUE GOOSE"  
pursuant to his bare boat charter party agreement wherein it is Employer's obligation to furnish the  
said yacht with a competent master and crew; and

WHEREAS, Yacht Captain is a competent master, having had over two years' experience in  
the coastal and inland waters of the United States and the Caribbean Sea  
and is able to furnish a crew for the management and navigation of the said yacht; and

WHEREAS, the parties desire to reduce their agreement to written terms;

NOW, THEREFORE, in consideration of the premises and of the agreements hereinafter con-  
tained, it is agreed as follows:

1. Employer hereby hires Yacht Captain as the Master of the said yacht to act as such Master  
so long as the yacht is under charter to Employer.

2. Yacht Captain agrees to furnish two crewmen to assist in operating and navigating  
the said yacht. The Captain and crew, if any, shall be properly uniformed. The crew to comprise the  
following:

Mate and Cook

3. Yacht Captain shall be paid for his services and the services of his crew a total sum of  
\$ 1,020.00, and Employer shall furnish to the Yacht Captain and his crew quarters and food  
during the term of this Agreement. See additional provisions in paragraph 5 (over)

4. The term of this agreement shall commence the 25th day of March 19 60  
or at such time that the yacht shall be ready to sail pursuant to the bare boat charter party agreement  
with the Owner, and shall terminate on the 6th day of May 19 60, unless sooner  
terminated by the termination of the yacht party agreement for any reason whatsoever. In the event that  
the yacht charter party agreement is sooner terminated, the Master and crew will receive a prorated share  
of the agreed compensation for their services.

IN WITNESS WHEREOF, the parties have duly executed this agreement as of the day and  
year first above written.

SMITHSONIAN INSTITUTION

By: Dr. Schmitt

(EMPLOYER)

WITNESS:

Harold Haynes

WITNESS:

Louise M. Pearson

Thomas C. Burnett  
(YACHT CAPTAIN)